Berliner Astronomisches Jahrbuch

für

1938

163. Jahrgang

Herausgegeben von dem

Astronomischen Rechen-Institut

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Astronomisches Rechen-Institut

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Vorwort

Vom Jahrgang 1916 an ist der fundamentale Meridian, auf den alle Angaben des Jahrbuchs bezogen sind, der Meridian von Greenwich.

Die Zeit ist vom Jahrgang 1925 an in Welt-Zeit, d. i. Bürgerliche Zeit Greenwich, ausgedrückt (siehe Erläuterungen).

Die Grundlagen des Berliner Astronomischen Jahrbuchs bilden:

Für die Sonne und die großen Planeten:

Die Tafeln von Newcomb und (für Jupiter und Saturn) von Hill, enthalten in:

Astronomical Papers of the American Ephemeris,
Vol. VI, Part I—IV: *Tables of the four inner planets*,
Vol. VII, Part I—IV: *Tables of Jupiter*, *Saturn*, *Uranus*, *Neptune*.

Für Pluto die Elemente von E. C. Bower. (Näheres siehe Erläuterungen.)

Als Sonnenhalbmesser in der mittleren Entfernung ist 16′ 1″.50 angenommen; dagegen liegt der Berechnung der Finsternisse der von Auwers in A. N., Bd. 128 gegebene Wert 15′ 59″.63 zugrunde.

Für den Mond:

Tables of the Motion of the Moon by Ernest W. Brown.

Der geozentrische Mondhalbmesser $r_☾$ ist aus der Äquatorial-Horizontalparallaxe $p_☾$ gerechnet nach der Formel

$$r_☾ = 0.272469\, p_☾ + 1''.50,$$

für die Finsternisse nach $\sin r_☾ = 0.272274 \sin p_☾$.

Als Neigung des Mondäquators gegen die Ekliptik ist nach F. Hayn (A. N. Bd. 199, 263) angenommen: $J = 1° 32' 20''$.

Für die Fixsterne:

Neuer Fundamentalkatalog des Berliner Astronomischen Jahrbuchs nach den Grundlagen von A. Auwers, für die Epochen 1875 und 1900 bearbeitet von Dr. J. Peters (Veröffentlichung Nr. 33 des Königlichen Astronomischen Rechen-Instituts).

Zum Übergang auf den „Dritten Fundamentalkatalog des Berliner Astronomischen Jahrbuches“ sind auf den Seiten 368* bis 379* die definitiven Verbesserungen des NFK für 1938.5 gegeben.

Die Sterngrößen sind der »Revised Harvard Photometry (Harvard Annals, vol. 50)«, die Sternspektra dem »Henry Draper Catalogue (Harvard Annals, vol. 91—99)« entnommen.

Als Werte der fundamentalen Reduktionsgrößen sind angenommen:

Die Präzessions-Größen nach S. Newcomb (vgl. H. Andoyer, Bull. Astr. **28**, 67)
Die Nutations-Konstante . . . . . 9″.21
Die Nutations-Größen nach S. Newcomb (Bull. Astr. **15**, 241)
Die Aberrations-Konstante . . . . 20″.47
Die Sonnen-Parallaxe . . . . 8″.80
Die Abplattung der Erde . . . . 1 : 297

Für die Satelliten:

Die Angaben über die 4 älteren Jupitertrabanten beruhen auf den Tafeln von R. A. Sampson (*Tables of the four great Satellites of Jupiter.* London 1910), die Angaben über die 8 älteren Saturnsatelliten auf den von H. und G. Struve sowie von J. Woltjer ermittelten Werten (Näheres s. Erläuterungen).

In allen Ephemeriden der Sonne, der Planeten und der Fixsterne sind die kurzperiodischen, von der Mondlänge abhängigen Nutationsglieder weggelassen; doch bietet das Jahrbuch die Möglichkeit, auch diese weggelassenen Glieder zu berücksichtigen (s. Erläuterungen).

Der Inhalt des Jahrbuchs hat gegen das Vorjahr keine wesentlichen Änderungen erfahren, jedoch ist zu erwähnen, daß vom vorliegenden Jahrgang ab die Zeitgleichung im Sinne wahre Zeit minus mittlere Zeit gegeben ist, also mit dem entgegengesetzten Vorzeichen wie bisher. Ferner sind alle Tafeln, die bisher auf das Normaläquinoktium 1925.0 bezogen waren, vom vorliegenden Jahrgang ab auf das Normaläquinoktium 1950.0 bezogen. Neu aufgenommen sind Zusammenstellungen astronomischer Konstanten und der Bahnelemente der großen Planeten sowie Vorausberechnungen der Ein- und Austrittszeiten der Sternbedeckungen durch den Mond für Breslau und Frankfurt a. M. Zum Ausgleich sind die mittleren Örter der Sterne, die vom Monde bedeckt werden, und die Elemente der Sternbedeckungen weggefallen.

Bezüglich der Zahlengrundlagen sei auf die im Berliner Jahrbuch für 1916 gegebene Darstellung der »Grundbegriffe der Sphärischen Astronomie« hingewiesen.

Ein Teil der Angaben wurde seitens der American Ephemeris and Nautical Almanac, Washington, des Nautical Almanac Office, London, und des Bureau des Longitudes, Paris, zur Verfügung gestellt.

Die Schriftleitung des Astronomischen Jahrbuchs für 1938 lag in den Händen von Prof. Dr. Kohl; an den verschiedenen Arbeiten beteiligten sich außerdem die Herren Dr. Müller, Dr. Baehr und mehrere Hilfsarbeiter.

Astronomisches Rechen-Institut.

Inhalt

Zeit- und Festrechnung 1938

Das Jahr 1938 entspricht dem
Jahr 6651 der Julianischen Periode und dem
Jahr 7446—7447 der Byzantinischen Ära.

Gregorianischer Kalender

Goldene Zahl	1
Epakte	XXIX
Sonnenzirkel	15
Sonntagsbuchstabe	B

Septuagesima	13. Febr.
Aschermittwoch	2. März
I. Quatember	9. März
Ostersonntag	17. April
Himmelfahrt	26. Mai
Pfingstsonntag	5. Juni
II. Quatember	8. Juni
III. Quatember	21. Sept.
I. Advent	27. Nov.
IV. Quatember	14. Dez.

Dimensionen der Erde

a) Nach Bessel (1841)

Große Halbachse	a = 6 377 397.155 m	log a = 6.804 6334 637
Kleine Halbachse	b = 6 356 078.963 m	log b = 6.803 1892 839
Abplattung	α = 1 : 299.152 8129	log α = 7.524 1069 092—10
Meridianquadrant	= 10 000 855.76 m	

Die Maßeinheit der Länge ist das legale Meter.

b) Nach Hayford (1909)

Große Halbachse	a = 6 378 388 m	log a = 6.804 7109 340
Kleine Halbachse	b = 6 356 911.946 m	log b = 6.803 2461 958
Abplattung	α = 1 : 297	log α = 7.527 2435 507—10
Meridianquadrant	= 10 002 288.30 m	

Die Maßeinheit der Länge ist das internationale Meter.

Ein internationales Meter = 1.000 0133 legales Meter.

Beschleunigung durch die Schwerkraft:

$$g = 980.616 - 2.5928 \cos 2\varphi + 0.0068 \cos^2 2\varphi \text{ cm. gr. sec.} \quad \text{(Helmert 1908)}$$

Masse der Erde: $5.974 \cdot 10^{27}$ gr.

Masse der Sonne: $1.983 \cdot 10^{33}$ gr.

Radius der Sonne: 695 300 km.

Mittlere Entfernung Erde — Sonne (mit Hayfords Erdradius):
149 504 200 km = 1 Astron. Einheit.

Lichtzeit für die Astron. Einheit: $498\overset{s}{.}72$ (mit Lichtgeschwindigkeit 299 774 km/sec.)

Astronomische Konstanten

Allgemeine Präzession . . . . $\psi = 50''.2564 + 0''.000222\,t$

Präzession in Rektaszension . . . . $m = 3^s.07234 + 0^s.00186\,t$

Präzession in Deklination . . . . $n = 20''.0468 - 0''.000085\,t$

Mittlere Schiefe der Ekliptik . . . . $\varepsilon = 23^\circ\,27'\,8''.26 - 0''.4684\,t$

Länge d. aufsteig. Knotens
d. bewegl. a. d. festen Ekliptik . . . . $\Pi = 173^\circ\,57'\,3''.6 + 32''.862\,t$

Winkel zwischen fester u. bewegl. Ekliptik . . . $\pi = 0''.4711 - 0''.000007\,t$

Länge des tropischen Jahres . . . . . . $365^d.24219879 - 0^d.0000000614\,t$
„ „ siderischen „ . . . . . . $365.25636042 + 0.0000000011\,t$
„ „ anomalistischen „ . . . . . . $365.25964134 + 0.0000000304\,t$
„ „ julianischen „ 365.25

t = Zeit seit 1900 in julianischen Jahren

Länge des synodischen Monats . . . . $29^d.530588$
„ „ tropischen „ 27.321582
„ „ siderischen „ 27.321661
„ „ anomalistischen „ 27.554550

Länge des mittleren Sonnentages $= 24^h\,3^m\,56^s.555$ Sternzeit $= 1.00273791$ Sterntag

Länge des mittl. Sterntages $= 23^h\,56^m\,4^s.091$ mittl. Zeit $= 0.99726957$ mittl. Sonnentag

Äquatoreal-Horizontalparallaxe des Mondes . . . . $57'\,2''.70$
Gravitationskonstante nach Gauß $k = 0.017202099 = 3548''.18761$
$\log k = 8.23558144 - 10$ $\log k'' = 3.55000657$

1 Lichtjahr $= 63275$ Astr. Einh. $= 0.3068$ Parsek $= 9.460 \cdot 10^{12}$ km
1 Parsek $= 206264.806$ Astr. Einh. $= 3.2598$ Lichtjahre $= 30.84 \cdot 10^{12}$ km

Elemente der Planetenbahnen für 1938 Jan. 0, 0^h Welt-Zeit

	Ω	i	$\tilde{\omega}$	e
	°	°	°	
Merkur	47.596	7.004	76.491	0.205622
Venus	76.122	3.394	130.699	0.006803
Erde	—	—	101.874	0.016735
Mars	49.079	1.850	334.918	0.093348
Jupiter	99.827	1.307	13.333	0.048397
Saturn	113.122	2.491	91.842	0.055761
Uranus	73.667	0.773	172.113	0.046334
Neptun	131.099	1.776	47.269	0.008999
Pluto	109.633	17.144	223.175	0.248644

	a	L	$n_{sid.}$	$P_{sid.}$	
		°	°	a	d
Merkur	0.387099	94.234	4.09234	0	87.9693
Venus	0.723331	258.465	1.60213	0	224.7008
Erde	1.000000	99.003	0.98561	1	0.0142
Mars	1.523688	7.069	0.52403	1	321.7375
Jupiter	5.202561	311.761	0.08309	11	314.925
Saturn	9.554747	11.465	0.03346	29	167.21
Uranus	19.21814	47.534	0.01173	84	8.11
Neptun	30.10957	168.009	0.00598	164	281.6
Pluto	39.51774	148.185	0.00397	248	157

Merkur bis Mars nach Newcomb, Jupiter bis Neptun nach Leverrier und Gaillot, Pluto nach Bower. Für Pluto sind baryzentrische Elemente bezogen auf Ekliptik und mittleres Äquinoktium 1950.0 gegeben.

Astronomische Zeichen und Abkürzungen

Bezeichnung der Wochentage

☉ Sonntag
☾ Montag
♂ Dienstag
☿ Mittwoch
♃ Donnerstag
♀ Freitag
♄ Sonnabend

Adspekten

☌ Konjunktion
□ Quadratur
☍ Opposition

Mondphasen

● Neumond
☽ Erstes Viertel
○ Vollmond
☾ Letztes Viertel

☊ Aufsteigender }
☋ Absteigender } Knoten

Zeichen

des Tierkreises und der Himmelskörper

♈ Widder . . .	0 Grad	
♉ Stier	30 »	☉ Sonne
♊ Zwillinge . . .	60 »	☾ Mond
♋ Krebs	90 »	☿ Merkur
♌ Löwe	120 »	♀ Venus
♍ Jungfrau . . .	150 »	♁ Erde
♎ Waage . . .	180 »	♂ Mars
♏ Skorpion . . .	210 »	♃ Jupiter
♐ Schütze . . .	240 »	♄ Saturn
♑ Steinbock . .	270 »	♅ Uranus
♒ Wassermann .	300 »	♆ Neptun
♓ Fische	330 »	

Sonne, Mond, Große Planeten

1938

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung (Wahre Zeit *minus* Mittlere Zeit) m s	s	Scheinbare Rektaszension h m s	m s	Scheinbare Deklination ° ′ ″	′ ″	Halbe Durchgangs-Dauer St.-Zt. s	Halbmesser ′ ″
1938									
Jan. 0	Fr	— 2 44.82	28.85	18 38 45.22	4 25.41	—23 8 49.5	4 19.8	71.11	16 17.82
1	Sa	3 13.67	28.57	18 43 10.63	4 25.12	23 4 29.7	4 47.5	71.07	16 17.84
2	St	3 42.24	28.23	18 47 35.75	4 24.80	22 59 42.2	5 15.0	71.03	16 17.84
3	Mo	4 10.47	27.88	18 52 0.55	4 24.43	22 54 27.2	5 42.3	70.99	16 17.85
4	Di	4 38.35	27.48	18 56 24.98	4 24.04	22 48 44.9	6 9.6	70.94	16 17.84
5	Mi	5 5.83	27.06	19 0 49.02	4 23.62	22 42 35.3	6 36.5	70.88	16 17.84
6	Do	— 5 32.89	26.60	19 5 12.64	4 23.15	—22 35 58.8	7 3.3	70.82	16 17.83
7	Fr	5 59.49	26.11	19 9 35.79	4 22.67	22 28 55.5	7 29.9	70.76	16 17.82
8	Sa	6 25.60	25.59	19 13 58.46	4 22.15	22 21 25.6	7 56.2	70.70	16 17.80
9	St	6 51.19	25.04	19 18 20.61	4 21.60	22 13 29.4	8 22.3	70.63	16 17.78
10	Mo	7 16.23	24.47	19 22 42.21	4 21.03	22 5 7.1	8 48.2	70.55	16 17.75
11	Di	7 40.70	23.88	19 27 3.24	4 20.44	21 56 18.9	9 13.7	70.48	16 17.72
12	Mi	— 8 4.58	23.27	19 31 23.68	4 19.82	—21 47 5.2	9 39.1	70.40	16 17.68
13	Do	8 27.85	22.63	19 35 43.50	4 19.19	21 37 26.1	10 4.1	70.31	16 17.64
14	Fr	8 50.48	21.98	19 40 2.69	4 18.54	21 27 22.0	10 29.0	70.23	16 17.59
15	Sa	9 12.46	21.32	19 44 21.23	4 17.87	21 16 53.0	10 53.5	70.14	16 17.53
16	St	9 33.78	20.64	19 48 39.10	4 17.20	21 5 59.5	11 17.7	70.05	16 17.47
17	Mo	9 54.42	19.95	19 52 56.30	4 16.51	20 54 41.8	11 41.6	69.95	16 17.40
18	Di	—10 14.37	19.25	19 57 12.81	4 15.80	—20 43 0.2	12 5.2	69.86	16 17.33
19	Mi	10 33.62	18.53	20 1 28.61	4 15.09	20 30 55.0	12 28.6	69.76	16 17.25
20	Do	10 52.15	17.82	20 5 43.70	4 14.37	20 18 26.4	12 51.6	69.66	16 17.16
21	Fr	11 9.97	17.08	20 9 58.07	4 13.64	20 5 34.8	13 14.1	69.56	16 17.06
22	Sa	11 27.05	16.33	20 14 11.71	4 12.89	19 52 20.7	13 36.5	69.45	16 16.97
23	St	11 43.38	15.58	20 18 24.60	4 12.13	19 38 44.2	13 58.5	69.35	16 16.87
24	Mo	—11 58.96	14.81	20 22 36.73	4 11.37	—19 24 45.7	14 20.0	69.24	16 16.75
25	Di	12 13.77	14.04	20 26 48.10	4 10.59	19 10 25.7	14 41.2	69.13	16 16.64
26	Mi	12 27.81	13.25	20 30 58.69	4 9.81	18 55 44.5	15 1.9	69.02	16 16.53
27	Do	12 41.06	12.46	20 35 8.50	4 9.01	18 40 42.6	15 22.3	68.91	16 16.41
28	Fr	12 53.52	11.66	20 39 17.51	4 8.22	18 25 20.3	15 42.4	68.79	16 16.28
29	Sa	13 5.18	10.85	20 43 25.73	4 7.41	18 9 37.9	16 2.0	68.68	16 16.15
30	St	—13 16.03	10.04	20 47 33.14	4 6.59	—17 53 35.9	16 21.2	68.57	16 16.02
31	Mo	13 26.07	9.22	20 51 39.73	4 5.78	17 37 14.7	16 40.0	68.45	16 15.88
Febr. 1	Di	13 35.29	8.41	20 55 45.51	4 4.96	17 20 34.7	16 58.4	68.34	16 15.74
2	Mi	13 43.70	7.57	20 59 50.47	4 4.13	17 3 36.3	17 16.2	68.22	16 15.60
3	Do	13 51.27	6.75	21 3 54.60	4 3.31	16 46 20.1	17 33.8	68.11	16 15.46
4	Fr	13 58.02	5.92	21 7 57.91	4 2.47	16 28 46.3	17 50.9	67.99	16 15.31
5	Sa	—14 3.94	5.10	21 12 0.38	4 1.65	—16 10 55.4	18 7.6	67.88	16 15.16
6	St	14 9.04	4.26	21 16 2.03	4 0.82	15 52 47.8	18 23.8	67.76	16 15.01
7	Mo	14 13.30	3.45	21 20 2.85	4 0.00	15 34 24.0	18 39.6	67.65	16 14.85
8	Di	14 16.75	2.62	21 24 2.85	3 59.18	15 15 44.4	18 55.0	67.53	16 14.69
9	Mi	14 19.37	1.81	21 28 2.03	3 58.37	14 56 49.4	19 10.0	67.42	16 14.52
10	Do	—14 21.18		21 32 0.40		—14 37 39.4		67.31	16 14.35

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	0ʰ Welt-Zeit: Mittleres Äquinoktium 1938.0 Länge		Breite	log R		Aufgang in {+50° Breite, 0ʰ Länge	Untergang in {+50° Breite, 0ʰ Länge
1938	2428	h m s	in 0.001 s		° ′ ″	′ ″	in 0.01″			h m	h m
Jan. 0	898.5	6 36 0.403	+ 983	− 2	278 54 11.6	61 10.7	+12	9.992 6888	49	7 59	16 7
1	899.5	6 39 56.961	986	+ 2	279 55 22.3	61 10.8	+25	9.992 6839	31	7 59	16 8
2	900.5	6 43 53.519	988	+ 5	280 56 33.1	61 10.9	+36	9.992 6808	15	7 59	16 9
3	901.5	6 47 50.076	990	+ 7	281 57 44.0	61 10.8	+46	9.992 6793	−3	7 59	16 10
4	902.5	6 51 46.634	993	+ 8	282 58 54.8	61 10.6	+53	9.992 6796	20	7 58	16 12
5	903.5	6 55 43.192	995	+ 7	284 0 5.4	61 10.4	+58	9.992 6816	39	7 58	16 13
6	904.5	6 59 39.749	+ 997	+ 4	285 1 15.8	61 10.1	+60	9.992 6855	58	7 58	16 14
7	905.5	7 3 36.307	999	0	286 2 25.9	61 9.7	+59	9.992 6913	76	7 58	16 15
8	906.5	7 7 32.864	1001	− 6	287 3 35.6	61 9.2	+55	9.992 6989	96	7 57	16 16
9	907.5	7 11 29.422	1003	−11	288 4 44.8	61 8.6	+48	9.992 7085	120	7 57	16 18
10	908.5	7 15 25.979	1005	−15	289 5 53.4	61 8.1	+38	9.992 7205	141	7 56	16 19
11	909.5	7 19 22.536	1007	−16	290 7 1.5	61 7.5	+26	9.992 7346	166	7 56	16 20
12	910.5	7 23 19.093	+1009	−14	291 8 9.0	61 6.9	+12	9.992 7512	192	7 55	16 21
13	911.5	7 27 15.651	1011	− 9	292 9 15.9	61 6.3	− 2	9.992 7704	220	7 55	16 23
14	912.5	7 31 12.208	1013	− 2	293 10 22.2	61 5.6	−15	9.992 7924	247	7 54	16 24
15	913.5	7 35 8.765	1014	+ 5	294 11 27.8	61 5.1	−26	9.992 8171	276	7 54	16 26
16	914.5	7 39 5.322	1016	+11	295 12 32.9	61 4.6	−36	9.992 8447	305	7 53	16 27
17	915.5	7 43 1.878	1017	+15	296 13 37.5	61 4.1	−43	9.992 8752	333	7 52	16 29
18	916.5	7 46 58.435	+1019	+15	297 14 41.6	61 3.7	−48	9.992 9085	362	7 51	16 30
19	917.5	7 50 54.992	1020	+12	298 15 45.3	61 3.3	−51	9.992 9447	389	7 50	16 32
20	918.5	7 54 51.549	1021	+ 8	299 16 48.6	61 2.9	−50	9.992 9836	414	7 49	16 33
21	919.5	7 58 48.105	1022	+ 2	300 17 51.5	61 2.4	−46	9.993 0250	438	7 48	16 35
22	920.5	8 2 44.661	1023	− 3	301 18 53.9	61 2.0	−39	9.993 0688	460	7 47	16 37
23	921.5	8 6 41.218	1024	− 7	302 19 55.9	61 1.6	−30	9.993 1148	483	7 46	16 38
24	922.5	8 10 37.774	+1025	− 8	303 20 57.5	61 1.1	−18	9.993 1631	502	7 45	16 40
25	923.5	8 14 34.330	1026	− 8	304 21 58.6	61 0.5	− 6	9.993 2133	522	7 44	16 41
26	924.5	8 18 30.886	1027	− 5	305 22 59.1	60 59.8	+ 6	9.993 2655	540	7 43	16 43
27	925.5	8 22 27.442	1027	− 2	306 23 58.9	60 59.1	+19	9.993 3195	556	7 42	16 45
28	926.5	8 26 23.998	1028	+ 1	307 24 58.0	60 58.4	+31	9.993 3751	572	7 40	16 46
29	927.5	8 30 20.554	1028	+ 5	308 25 56.4	60 57.6	+41	9.993 4323	588	7 39	16 48
30	928.5	8 34 17.109	+1029	+ 7	309 26 54.0	60 56.7	+50	9.993 4911	604	7 37	16 49
31	929.5	8 38 13.665	1029	+ 9	310 27 50.7	60 55.7	+58	9.993 5515	617	7 36	16 51
Febr. 1	930.5	8 42 10.220	1029	+ 8	311 28 46.4	60 54.6	+63	9.993 6132	630	7 35	16 53
2	931.5	8 46 6.776	1029	+ 6	312 29 41.0	60 53.4	+66	9.993 6762	645	7 33	16 55
3	932.5	8 50 3.331	1029	+ 2	313 30 34.4	60 52.2	+65	9.993 7407	657	7 32	16 56
4	933.5	8 53 59.886	1029	− 3	314 31 26.6	60 50.8	+62	9.993 8064	672	7 30	16 58
5	934.5	8 57 56.441	+1028	− 9	315 32 17.4	60 49.4	+55	9.993 8736	687	7 29	17 0
6	935.5	9 1 52.996	1028	−13	316 33 6.8	60 48.0	+45	9.993 9423	702	7 27	17 2
7	936.5	9 5 49.551	1027	−15	317 33 54.8	60 46.4	+34	9.994 0125	721	7 26	17 3
8	937.5	9 9 46.106	1027	−14	318 34 41.2	60 44.8	+22	9.994 0846	737	7 24	17 5
9	938.5	9 13 42.661	1026	−11	319 35 26.0	60 43.2	+ 8	9.994 1583	756	7 22	17 6
10	939.5	9 17 39.215	+1025	− 5	320 36 9.2		− 6	9.994 2339		7 21	17 8

Tag	Wochentag	Zeitgleichung Wahre Zeit *minus* Mittlere Zeit (m s)	Diff. (s)	Scheinbare Rektaszension (h m s)	Diff. (m s)	Scheinbare Deklination (° ′ ″)	Diff. (′ ″)	Halbe Durchgangs-Dauer St.-Zt. (s)	Halbmesser (′ ″)
1938		0ʰ Welt-Zeit							
Febr. 10	Do	−14 21.18	1.01	21 32 0.40	3 57.56	−14 37 39.4	19 24.6	67.31	16 14.35
11	Fr	14 22.19	0.21	21 35 57.96	3 56.77	14 18 14.8	19 38.8	67.20	16 14.17
12	Sa	14 22.40	0.56	21 39 54.73	3 55.99	13 58 36.0	19 52.5	67.09	16 14.00
13	St	14 21.84	1.33	21 43 50.72	3 55.22	13 38 43.5	20 6.0	66.98	16 13.81
14	Mo	14 20.51	2.08	21 47 45.94	3 54.48	13 18 37.5	20 19.0	66.87	16 13.62
15	Di	14 18.43	2.81	21 51 40.42	3 53.74	12 58 18.5	20 31.6	66.77	16 13.43
16	Mi	−14 15.62	3.53	21 55 34.16	3 53.02	−12 37 46.9	20 43.8	66.66	16 13.23
17	Do	14 12.09	4.24	21 59 27.18	3 52.32	12 17 3.1	20 55.7	66.56	16 13.03
18	Fr	14 7.85	4.92	22 3 19.50	3 51.63	11 56 7.4	21 7.1	66.46	16 12.82
19	Sa	14 2.93	5.59	22 7 11.13	3 50.96	11 35 0.3	21 18.1	66.36	16 12.60
20	St	13 57.34	6.25	22 11 2.09	3 50.31	11 13 42.2	21 28.7	66.26	16 12.39
21	Mo	13 51.09	6.88	22 14 52.40	3 49.67	10 52 13.5	21 38.9	66.16	16 12.17
22	Di	−13 44.21	7.51	22 18 42.07	3 49.04	−10 30 34.6	21 48.8	66.07	16 11.94
23	Mi	13 36.70	8.12	22 22 31.11	3 48.44	10 8 45.8	21 58.1	65.98	16 11.72
24	Do	13 28.58	8.72	22 26 19.55	3 47.84	9 46 47.7	22 7.1	65.89	16 11.48
25	Fr	13 19.86	9.29	22 30 7.39	3 47.26	9 24 40.6	22 15.7	65.80	16 11.25
26	Sa	13 10.57	9.86	22 33 54.65	3 46.69	9 2 24.9	22 23.8	65.72	16 11.02
27	St	13 0.71	10.41	22 37 41.34	3 46.15	8 40 1.1	22 31.5	65.63	16 10.78
28	Mo	−12 50.30	10.94	22 41 27.49	3 45.61	− 8 17 29.6	22 38.8	65.55	16 10.55
März 1	Di	12 39.36	11.46	22 45 13.10	3 45.09	7 54 50.8	22 45.7	65.47	16 10.31
2	Mi	12 27.90	11.96	22 48 58.19	3 44.59	7 32 5.1	22 52.2	65.40	16 10.06
3	Do	12 15.94	12.46	22 52 42.78	3 44.10	7 9 12.9	22 58.2	65.33	16 9.82
4	Fr	12 3.48	12.93	22 56 26.88	3 43.62	6 46 14.7	23 3.8	65.26	16 9.58
5	Sa	11 50.55	13.39	23 0 10.50	3 43.16	6 23 10.9	23 9.1	65.19	16 9.33
6	St	−11 37.16	13.84	23 3 53.66	3 42.71	− 6 0 1.8	23 13.9	65.12	16 9.09
7	Mo	11 23.32	14.26	23 7 36.37	3 42.29	5 36 47.9	23 18.3	65.06	16 8.84
8	Di	11 9.06	14.68	23 11 18.66	3 41.88	5 13 29.6	23 22.3	65.00	16 8.60
9	Mi	10 54.38	15.07	23 15 0.54	3 41.48	4 50 7.3	23 26.0	64.95	16 8.35
10	Do	10 39.31	15.44	23 18 42.02	3 41.11	4 26 41.3	23 29.2	64.89	16 8.09
11	Fr	10 23.87	15.79	23 22 23.13	3 40.76	4 3 12.1	23 32.2	64.84	16 7.84
12	Sa	−10 8.08	16.12	23 26 3.89	3 40.43	− 3 39 39.9	23 34.7	64.79	16 7.59
13	St	9 51.96	16.43	23 29 44.32	3 40.13	3 16 5.2	23 36.9	64.75	16 7.33
14	Mo	9 35.53	16.71	23 33 24.45	3 39.84	2 52 28.3	23 38.7	64.71	16 7.07
15	Di	9 18.82	16.97	23 37 4.29	3 39.58	2 28 49.6	23 40.2	64.67	16 6.81
16	Mi	9 1.85	17.20	23 40 43.87	3 39.35	2 5 9.4	23 41.3	64.63	16 6.55
17	Do	8 44.65	17.41	23 44 23.22	3 39.14	1 41 28.1	23 42.1	64.60	16 6.27
18	Fr	− 8 27.24	17.60	23 48 2.36	3 38.96	− 1 17 46.0	23 42.6	64.57	16 6.00
19	Sa	8 9.64	17.76	23 51 41.32	3 38.79	0 54 3.4	23 42.7	64.54	16 5.73
20	St	7 51.88	17.89	23 55 20.11	3 38.66	0 30 20.7	23 42.5	64.52	16 5.45
21	Mo	7 33.99	18.01	23 58 58.77	3 38.54	− 0 6 38.2	23 41.8	64.50	16 5.18
22	Di	7 15.98	18.10	0 2 37.31	3 38.45	+ 0 17 3.6	23 40.8	64.48	16 4.90
23	Mi	− 6 57.88		0 6 15.76		+ 0 40 44.4		64.47	16 4.61

Tag	Julian Zeit	Sternzeit	Nutation in AR. langp. Gl.	kurzp. Gl.	Mittleres Äquinoktium 1938.0 Länge		Breite	log R		Aufgang in {+50° Breite, 0h Länge	Untergang
1938	2428	h m s	in 0.001 s		° ′ ″	′ ″	in 0.″01			h m	h m
Febr. 10	939.5	9 17 39.215	+1025	− 5	320 36 9.2	60 41.6	− 6	9.994 2339	777	7 21	17 8
11	940.5	9 21 35.770	1024	+ 2	321 36 50.8	60 39.9	−18	9.994 3116	797	7 19	17 10
12	941.5	9 25 32.324	1023	+ 9	322 37 30.7	60 38.4	−28	9.994 3913	821	7 17	17 12
13	942.5	9 29 28.878	1022	+13	323 38 9.1	60 36.8	−37	9.994 4734	843	7 16	17 13
14	943.5	9 33 25.432	1021	+14	324 38 45.9	60 35.4	−42	9.994 5577	866	7 14	17 15
15	944.5	9 37 21.986	1020	+12	325 39 21.3	60 33.9	−45	9.994 6443	889	7 12	17 17
16	945.5	9 41 18.540	+1018	+ 8	326 39 55.2	60 32.5	−44	9.994 7332	910	7 10	17 19
17	946.5	9 45 15.094	1017	+ 3	327 40 27.7	60 31.1	−40	9.994 8242	932	7 8	17 21
18	947.5	9 49 11.648	1015	− 2	328 40 58.8	60 29.8	−34	9.994 9174	950	7 7	17 22
19	948.5	9 53 8.202	1014	− 6	329 41 28.6	60 28.4	−25	9.995 0124	969	7 5	17 24
20	949.5	9 57 4.756	1012	− 8	330 41 57.0	60 27.1	−15	9.995 1093	986	7 3	17 26
21	950.5	10 1 1.309	1010	− 8	331 42 24.1	60 25.8	− 4	9.995 2079	1001	7 1	17 28
22	951.5	10 4 57.862	+1008	− 6	332 42 49.9	60 24.4	+ 8	9.995 3080	1014	6 59	17 29
23	952.5	10 8 54.416	1006	− 4	333 43 14.3	60 23.0	+20	9.995 4094	1028	6 57	17 31
24	953.5	10 12 50.969	1004	0	334 43 37.3	60 21.5	+32	9.995 5122	1039	6 55	17 32
25	954.5	10 16 47.522	1002	+ 4	335 43 58.8	60 20.1	+42	9.995 6161	1049	6 53	17 34
26	955.5	10 20 44.076	1000	+ 7	336 44 18.9	60 18.6	+52	9.995 7210	1059	6 51	17 36
27	956.5	10 24 40.629	998	+ 9	337 44 37.5	60 17.0	+59	9.995 8269	1065	6 49	17 37
28	957.5	10 28 37.181	+ 995	+ 9	338 44 54.5	60 15.4	+64	9.995 9334	1074	6 47	17 39
März 1	958.5	10 32 33.734	993	+ 7	339 45 9.9	60 13.6	+66	9.996 0408	1077	6 45	17 40
2	959.5	10 36 30.287	990	+ 4	340 45 23.5	60 11.8	+65	9.996 1485	1085	6 43	17 42
3	960.5	10 40 26.840	988	− 1	341 45 35.3	60 10.0	+62	9.996 2570	1088	6 41	17 44
4	961.5	10 44 23.393	985	− 6	342 45 45.3	60 8.1	+55	9.996 3658	1093	6 39	17 46
5	962.5	10 48 19.945	982	−11	343 45 53.4	60 6.0	+46	9.996 4751	1099	6 37	17 47
6	963.5	10 52 16.498	+ 980	−14	344 45 59.4	60 4.0	+34	9.996 5850	1103	6 35	17 49
7	964.5	10 56 13.051	977	−14	345 46 3.4	60 1.8	+22	9.996 6953	1110	6 33	17 51
8	965.5	11 0 9.603	974	−11	346 46 5.2	59 59.6	+ 9	9.996 8063	1117	6 31	17 53
9	966.5	11 4 6.156	971	− 6	347 46 4.8	59 57.4	− 4	9.996 9180	1125	6 29	17 54
10	967.5	11 8 2.708	968	+ 1	348 46 2.2	59 55.2	−17	9.997 0305	1134	6 26	17 56
11	968.5	11 11 59.261	965	+ 7	349 45 57.4	59 52.9	−29	9.997 1439	1145	6 24	17 57
12	969.5	11 15 55.813	+ 962	+11	350 45 50.3	59 50.7	−38	9.997 2584	1156	6 22	17 59
13	970.5	11 19 52.365	959	+13	351 45 41.0	59 48.5	−43	9.997 3740	1168	6 20	18 1
14	971.5	11 23 48.918	956	+13	352 45 29.5	59 46.4	−46	9.997 4908	1182	6 18	18 2
15	972.5	11 27 45.470	953	+ 9	353 45 15.9	59 44.4	−46	9.997 6090	1192	6 16	18 4
16	973.5	11 31 42.022	950	+ 4	354 45 0.3	59 42.4	−43	9.997 7282	1207	6 14	18 5
17	974.5	11 35 38.575	947	− 1	355 44 42.7	59 40.5	−37	9.997 8489	1218	6 12	18 7
18	975.5	11 39 35.127	+ 944	− 5	356 44 23.2	59 38.5	−29	9.997 9707	1228	6 10	18 9
19	976.5	11 43 31.679	941	− 8	357 44 1.7	59 36.7	−19	9.998 0935	1238	6 8	18 10
20	977.5	11 47 28.231	937	− 9	358 43 38.4	59 34.9	− 7	9.998 2173	1247	6 5	18 12
21	978.5	11 51 24.783	934	− 8	359 43 13.3	59 33.1	+ 6	9.998 3420	1254	6 3	18 13
22	979.5	11 55 21.335	931	− 5	0 42 46.4	59 31.3	+18	9.998 4674	1261	6 1	18 15
23	980.5	11 59 17.888	+ 928	− 2	1 42 17.7		+30	9.998 5935		5 59	18 17

Tag	Wochentag	0ʰ Welt-Zeit: Zeitgleichung Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1938		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
März 23	Mi	−6 57.88	18.18	0 6 15.76	3 38.38	+ 0 40 44.4	23 39.5	64.47	16 4.61
24	Do	6 39.70	18.23	0 9 54.14	3 38.32	1 4 23.9	23 37.8	64.46	16 4.34
25	Fr	6 21.47	18.26	0 13 32.46	3 38.29	1 28 1.7	23 35.8	64.45	16 4.06
26	Sa	6 3.21	18.27	0 17 10.75	3 38.28	1 51 37.5	23 33.3	64.44	16 3.78
27	St	5 44.94	18.27	0 20 49.03	3 38.29	2 15 10.8	23 30.6	64.44	16 3.49
28	Mo	5 26.67	18.24	0 24 27.32	3 38.31	2 38 41.4	23 27.4	64.44	16 3.21
29	Di	−5 8.43	18.20	0 28 5.63	3 38.36	+ 3 2 8.8	23 23.9	64.44	16 2.93
30	Mi	4 50.23	18.14	0 31 43.99	3 38.41	3 25 32.7	23 20.0	64.45	16 2.65
31	Do	4 32.09	18.06	0 35 22.40	3 38.49	3 48 52.7	23 15.7	64.46	16 2.38
April 1	Fr	4 14.03	17.97	0 39 0.89	3 38.58	4 12 8.4	23 11.1	64.47	16 2.09
2	Sa	3 56.06	17.86	0 42 39.47	3 38.69	4 35 19.5	23 6.1	64.49	16 1.82
3	St	3 38.20	17.75	0 46 18.16	3 38.81	4 58 25.6	23 0.7	64.51	16 1.54
4	Mo	−3 20.45	17.61	0 49 56.97	3 38.94	+ 5 21 26.3	22 55.0	64.53	16 1.27
5	Di	3 2.84	17.46	0 53 35.91	3 39.09	5 44 21.3	22 48.9	64.55	16 1.00
6	Mi	2 45.38	17.29	0 57 15.00	3 39.26	6 7 10.2	22 42.4	64.58	16 0.73
7	Do	2 28.09	17.11	1 0 54.26	3 39.44	6 29 52.6	22 35.7	64.61	16 0.46
8	Fr	2 10.98	16.91	1 4 33.70	3 39.64	6 52 28.3	22 28.5	64.64	16 0.19
9	Sa	1 54.07	16.69	1 8 13.34	3 39.87	7 14 56.8	22 21.1	64.67	15 59.92
10	St	−1 37.38	16.45	1 11 53.21	3 40.10	+ 7 37 17.9	22 13.3	64.71	15 59.65
11	Mo	1 20.93	16.19	1 15 33.31	3 40.36	7 59 31.2	22 5.3	64.75	15 59.39
12	Di	1 4.74	15.91	1 19 13.67	3 40.64	8 21 36.5	21 56.8	64.79	15 59.12
13	Mi	0 48.83	15.62	1 22 54.31	3 40.94	8 43 33.3	21 48.1	64.83	15 58.85
14	Do	0 33.21	15.29	1 26 35.25	3 41.26	9 5 21.4	21 39.0	64.88	15 58.59
15	Fr	0 17.92	14.96	1 30 16.51	3 41.60	9 27 0.4	21 29.7	64.93	15 58.31
16	Sa	−0 2.96	14.59	1 33 58.11	3 41.96	+ 9 48 30.1	21 20.0	64.98	15 58.04
17	St	+0 11.63	14.22	1 37 40.07	3 42.33	10 9 50.1	21 9.9	65.03	15 57.77
18	Mo	0 25.85	13.83	1 41 22.40	3 42.73	10 31 0.0	20 59.7	65.08	15 57.50
19	Di	0 39.68	13.42	1 45 5.13	3 43.14	10 51 59.7	20 48.9	65.14	15 57.24
20	Mi	0 53.10	12.99	1 48 48.27	3 43.56	11 12 48.6	20 38.0	65.20	15 56.97
21	Do	1 6.09	12.55	1 52 31.83	3 44.00	11 33 26.6	20 26.6	65.26	15 56.70
22	Fr	+1 18.64	12.09	1 56 15.83	3 44.46	+11 53 53.2	20 15.0	65.33	15 56.44
23	Sa	1 30.73	11.63	2 0 0.29	3 44.93	12 14 8.2	20 3.0	65.39	15 56.18
24	St	1 42.36	11.14	2 3 45.22	3 45.41	12 34 11.2	19 50.7	65.46	15 55.91
25	Mo	1 53.50	10.65	2 7 30.63	3 45.90	12 54 1.9	19 38.0	65.53	15 55.65
26	Di	2 4.15	10.16	2 11 16.53	3 46.40	13 13 39.9	19 25.0	65.60	15 55.40
27	Mi	2 14.31	9.65	2 15 2.93	3 46.91	13 33 4.9	19 11.7	65.67	15 55.14
28	Do	+2 23.96	9.13	2 18 49.84	3 47.42	+13 52 16.6	18 58.0	65.74	15 54.89
29	Fr	2 33.09	8.61	2 22 37.26	3 47.94	14 11 14.6	18 44.0	65.82	15 54.64
30	Sa	2 41.70	8.08	2 26 25.20	3 48.47	14 29 58.6	18 29.7	65.89	15 54.40
Mai 1	St	2 49.78	7.56	2 30 13.67	3 49.00	14 48 28.3	18 15.0	65.97	15 54.15
2	Mo	2 57.34	7.03	2 34 2.67	3 49.53	15 6 43.3	17 59.9	66.04	15 53.92
3	Di	+3 4.37		2 37 52.20		+15 24 43.2		66.12	15 53.68

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1938.0 Länge		Breite	log R		Aufgang in +50° Breite 0h Länge	Untergang in +50° Breite 0h Länge
1938	242	h m s	in 0.001 s		° ′ ″	′ ″	in 0.″01			h m	h m
März 23	8980.5	11 59 17.888	+928	− 2	1 42 17.7	59 29.6	+30	9.998 5935	1263	5 59	18 17
24	8981.5	12 3 14.440	925	+ 2	2 41 47.3	59 27.7	+41	9.998 7198	1268	5 57	18 18
25	8982.5	12 7 10.992	922	+ 6	3 41 15.0	59 26.0	+49	9.998 8466	1270	5 54	18 20
26	8983.5	12 11 7.544	918	+ 8	4 40 41.0	59 24.2	+57	9.998 9736	1270	5 52	18 21
27	8984.5	12 15 4.096	915	+ 9	5 40 5.2	59 22.3	+63	9.999 1006	1268	5 50	18 23
28	8985.5	12 19 0.649	912	+ 8	6 39 27.5	59 20.5	+66	9.999 2274	1267	5 48	18 24
29	8986.5	12 22 57.201	+909	+ 5	7 38 48.0	59 18.7	+65	9.999 3541	1263	5 46	18 26
30	8987.5	12 26 53.753	906	0	8 38 6.7	59 16.7	+61	9.999 4804	1257	5 43	18 27
31	8988.5	12 30 50.305	903	− 5	9 37 23.4	59 14.7	+56	9.999 6061	1253	5 41	18 29
April 1	8989.5	12 34 46.858	900	−10	10 36 38.1	59 12.7	+47	9.999 7314	1247	5 39	18 30
2	8990.5	12 38 43.410	897	−13	11 35 50.8	59 10.5	+36	9.999 8561	1239	5 37	18 32
3	8991.5	12 42 39.963	894	−13	12 35 1.3	59 8.3	+23	9.999 9800	1234	5 35	18 33
4	8992.5	12 46 36.515	+891	−11	13 34 9.6	59 6.0	+ 9	0.000 1034	1227	5 32	18 35
5	8993.5	12 50 33.068	888	− 7	14 33 15.6	59 3.8	− 5	0.000 2261	1221	5 30	18 36
6	8994.5	12 54 29.620	885	0	15 32 19.4	59 1.4	−18	0.000 3482	1220	5 28	18 38
7	8995.5	12 58 26.173	882	+ 6	16 31 20.8	58 59.1	−31	0.000 4702	1215	5 26	18 40
8	8996.5	13 2 22.725	880	+11	17 30 19.9	58 56.7	−40	0.000 5917	1214	5 24	18 41
9	8997.5	13 6 19.278	877	+14	18 29 16.6	58 54.4	−46	0.000 7131	1213	5 21	18 43
10	8998.5	13 10 15.831	+875	+13	19 28 11.0	58 52.2	−49	0.000 8344	1212	5 19	18 44
11	8999.5	13 14 12.384	872	+10	20 27 3.2	58 49.9	−50	0.000 9556	1214	5 17	18 46
12	9000.5	13 18 8.936	869	+ 6	21 25 53.1	58 47.8	−47	0.001 0770	1214	5 15	18 48
13	9001.5	13 22 5.489	867	+ 1	22 24 40.9	58 45.6	−42	0.001 1984	1216	5 13	18 49
14	9002.5	13 26 2.042	865	− 4	23 23 26.5	58 43.6	−34	0.001 3200	1217	5 11	18 51
15	9003.5	13 29 58.595	862	− 7	24 22 10.1	58 41.7	−23	0.001 4417	1219	5 9	18 52
16	9004.5	13 33 55.148	+860	− 9	25 20 51.8	58 39.8	−11	0.001 5636	1217	5 7	18 54
17	9005.5	13 37 51.701	858	− 8	26 19 31.6	58 37.9	+ 1	0.001 6853	1218	5 5	18 56
18	9006.5	13 41 48.255	856	− 6	27 18 9.5	58 36.1	+13	0.001 8071	1216	5 3	18 57
19	9007.5	13 45 44.808	854	− 3	28 16 45.6	58 34.5	+26	0.001 9287	1214	5 1	18 59
20	9008.5	13 49 41.361	852	+ 1	29 15 20.1	58 32.7	+38	0.002 0501	1209	4 59	19 0
21	9009.5	13 53 37.915	850	+ 4	30 13 52.8	58 31.0	+48	0.002 1710	1204	4 57	19 2
22	9010.5	13 57 34.468	+848	+ 7	31 12 23.8	58 29.4	+55	0.002 2914	1198	4 55	19 4
23	9011.5	14 1 31.022	846	+ 8	32 10 53.2	58 27.8	+60	0.002 4112	1189	4 53	19 5
24	9012.5	14 5 27.576	844	+ 8	33 9 21.0	58 26.1	+63	0.002 5301	1181	4 51	19 7
25	9013.5	14 9 24.129	843	+ 6	34 7 47.1	58 24.6	+63	0.002 6482	1170	4 49	19 8
26	9014.5	14 13 20.683	841	+ 1	35 6 11.7	58 23.0	+60	0.002 7652	1158	4 47	19 10
27	9015.5	14 17 17.237	840	− 4	36 4 34.7	58 21.3	+55	0.002 8810	1144	4 45	19 11
28	9016.5	14 21 13.791	+839	− 9	37 2 56.0	58 19.7	+46	0.002 9954	1130	4 43	19 13
29	9017.5	14 25 10.345	837	−13	38 1 15.7	58 18.0	+35	0.003 1084	1114	4 42	19 14
30	9018.5	14 29 6.900	836	−14	38 59 33.7	58 16.2	+23	0.003 2198	1098	4 40	19 16
Mai 1	9019.5	14 33 3.454	835	−13	39 57 49.9	58 14.3	+ 9	0.003 3296	1079	4 38	19 17
2	9020.5	14 37 0.008	834	− 8	40 56 4.2	58 12.5	− 6	0.003 4375	1064	4 36	19 19
3	9021.5	14 40 56.563	+833	− 2	41 54 16.7		−21	0.003 5439		4 34	19 20

Header: 0h Welt-Zeit

Tag		Wochentag	0h Welt-Zeit							
			Zeitgleichung Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1938			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Mai	3	Di	+3 4.37	6.49	2 37 52.20	3 50.05	+15 24 43.2	17 44.6	66.12	15 53.68
	4	Mi	3 10.86	5.97	2 41 42.25	3 50.59	15 42 27.8	17 29.0	66.20	15 53.45
	5	Do	3 16.83	5.43	2 45 32.84	3 51.13	15 59 56.8	17 13.1	66.28	15 53.23
	6	Fr	3 22.26	4.88	2 49 23.97	3 51.67	16 17 9.9	16 56.7	66.36	15 53.00
	7	Sa	3 27.14	4.34	2 53 15.64	3 52.21	16 34 6.6	16 40.2	66.45	15 52.78
	8	St	3 31.48	3.80	2 57 7.85	3 52.76	16 50 46.8	16 23.3	66.53	15 52.57
	9	Mo	+3 35.28	3.24	3 1 0.61	3 53.32	+17 7 10.1	16 6.1	66.61	15 52.36
	10	Di	3 38.52	2.69	3 4 53.93	3 53.87	17 23 16.2	15 48.7	66.69	15 52.14
	11	Mi	3 41.21	2.12	3 8 47.80	3 54.43	17 39 4.9	15 30.9	66.77	15 51.93
	12	Do	3 43.33	1.56	3 12 42.23	3 54.99	17 54 35.8	15 13.0	66.85	15 51.72
	13	Fr	3 44.89	0.99	3 16 37.22	3 55.56	18 9 48.8	14 54.7	66.94	15 51.51
	14	Sa	3 45.88	0.42	3 20 32.78	3 56.14	18 24 43.5	14 36.1	67.02	15 51.30
	15	St	+3 46.30	0.15	3 24 28.92	3 56.71	+18 39 19.6	14 17.2	67.10	15 51.10
	16	Mo	3 46.15	0.72	3 28 25.63	3 57.27	18 53 36.8	13 58.1	67.18	15 50.90
	17	Di	3 45.43	1.30	3 32 22.90	3 57.86	19 7 34.9	13 38.8	67.26	15 50.69
	18	Mi	3 44.13	1.87	3 36 20.76	3 58.43	19 21 13.7	13 19.1	67.34	15 50.50
	19	Do	3 42.26	2.44	3 40 19.19	3 58.99	19 34 32.8	12 59.2	67.42	15 50.30
	20	Fr	3 39.82	3.00	3 44 18.18	3 59.55	19 47 32.0	12 39.0	67.50	15 50.11
	21	Sa	+3 36.82	3.56	3 48 17.73	4 0.12	+20 0 11.0	12 18.6	67.58	15 49.92
	22	St	3 33.26	4.11	3 52 17.85	4 0.67	20 12 29.6	11 57.9	67.65	15 49.74
	23	Mo	3 29.15	4.66	3 56 18.52	4 1.22	20 24 27.5	11 37.0	67.73	15 49.55
	24	Di	3 24.49	5.19	4 0 19.74	4 1.75	20 36 4.5	11 15.8	67.80	15 49.37
	25	Mi	3 19.30	5.72	4 4 21.49	4 2.27	20 47 20.3	10 54.4	67.87	15 49.19
	26	Do	3 13.58	6.24	4 8 23.76	4 2.79	20 58 14.7	10 32.7	67.94	15 49.02
	27	Fr	+3 7.34	6.73	4 12 26.55	4 3.29	+21 8 47.4	10 10.9	68.01	15 48.85
	28	Sa	3 0.61	7.21	4 16 29.84	4 3.76	21 18 58.3	9 48.7	68.08	15 48.69
	29	St	2 53.40	7.67	4 20 33.60	4 4.23	21 28 47.0	9 26.5	68.15	15 48.54
	30	Mo	2 45.73	8.11	4 24 37.83	4 4.67	21 38 13.5	9 4.0	68.21	15 48.39
	31	Di	2 37.62	8.54	4 28 42.50	4 5.10	21 47 17.5	8 41.3	68.27	15 48.24
Juni	1	Mi	2 29.08	8.94	4 32 47.60	4 5.49	21 55 58.8	8 18.3	68.33	15 48.10
	2	Do	+2 20.14	9.31	4 36 53.09	4 5.87	+22 4 17.1	7 55.3	68.39	15 47.96
	3	Fr	2 10.83	9.68	4 40 58.96	4 6.24	22 12 12.4	7 32.0	68.44	15 47.83
	4	Sa	2 1.15	10.02	4 45 5.20	4 6.57	22 19 44.4	7 8.7	68.49	15 47.70
	5	St	1 51.13	10.35	4 49 11.77	4 6.91	22 26 53.1	6 45.1	68.54	15 47.57
	6	Mo	1 40.78	10.65	4 53 18.68	4 7.21	22 33 38.2	6 21.4	68.59	15 47.45
	7	Di	1 30.13	10.94	4 57 25.89	4 7.49	22 39 59.6	5 57.5	68.64	15 47.34
	8	Mi	+1 19.19	11.21	5 1 33.38	4 7.77	+22 45 57.1	5 33.6	68.68	15 47.24
	9	Do	1 7.98	11.46	5 5 41.15	4 8.02	22 51 30.7	5 9.6	68.72	15 47.13
	10	Fr	0 56.52	11.70	5 9 49.17	4 8.26	22 56 40.3	4 45.3	68.75	15 47.02
	11	Sa	0 44.82	11.93	5 13 57.43	4 8.48	23 1 25.6	4 21.0	68.78	15 46.92
	12	St	0 32.89	12.12	5 18 5.91	4 8.68	23 5 46.6	3 56.7	68.81	15 46.82
	13	Mo	+0 20.77		5 22 14.59		+23 9 43.3		68.84	15 46.72

Tag	0ʰ Welt-Zeit Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	kurzp. Gl.	Mittleres Äquinoktium 1938.0 Länge		Breite	log R		Auf-gang in +50° Breite 0ʰ Länge	Unter-gang in +50° Breite 0ʰ Länge
1938	2429	h m s	s in 0.001		° ′ ″	′ ″	″ in 0.01			h m	h m
Mai 3	021.5	14 40 56.563	+833	− 2	41 54 16.7	58 10.6	−21	0.003 5439	1048	4 34	19 20
4	022.5	14 44 53.117	832	+ 5	42 52 27.3	58 8.6	−33	0.003 6487	1033	4 33	19 22
5	023.5	14 48 49.672	832	+11	43 50 35.9	58 6.6	−43	0.003 7520	1019	4 31	19 23
6	024.5	14 52 46.226	831	+14	44 48 42.5	58 4.7	−51	0.003 8539	1006	4 29	19 25
7	025.5	14 56 42.781	830	+15	45 46 47.2	58 2.7	−55	0.003 9545	993	4 27	19 26
8	026.5	15 0 39.336	830	+13	46 44 49.9	58 0.8	−56	0.004 0538	983	4 26	19 28
9	027.5	15 4 35.891	+829	+ 8	47 42 50.7	57 58.9	−55	0.004 1521	974	4 24	19 29
10	028.5	15 8 32.446	829	+ 3	48 40 49.6	57 57.0	−50	0.004 2495	964	4 23	19 31
11	029.5	15 12 29.001	829	− 2	49 38 46.6	57 55.3	−43	0.004 3459	956	4 21	19 32
12	030.5	15 16 25.557	829	− 6	50 36 41.9	57 53.7	−33	0.004 4415	948	4 20	19 33
13	031.5	15 20 22.112	829	− 8	51 34 35.6	57 52.1	−21	0.004 5363	939	4 18	19 35
14	032.5	15 24 18.667	829	− 8	52 32 27.7	57 50.6	− 8	0.004 6302	932	4 17	19 36
15	033.5	15 28 15.223	+829	− 7	53 30 18.3	57 49.1	+ 4	0.004 7234	922	4 15	19 38
16	034.5	15 32 11.778	829	− 4	54 28 7.4	57 47.7	+17	0.004 8156	913	4 14	19 39
17	035.5	15 36 8.334	829	0	55 25 55.1	57 46.5	+29	0.004 9069	904	4 13	19 40
18	036.5	15 40 4.890	830	+ 3	56 23 41.6	57 45.2	+39	0.004 9973	893	4 11	19 42
19	037.5	15 44 1.445	830	+ 6	57 21 26.8	57 44.0	+47	0.005 0866	881	4 10	19 43
20	038.5	15 47 58.001	831	+ 8	58 19 10.8	57 42.9	+54	0.005 1747	868	4 8	19 45
21	039.5	15 51 54.557	+831	+ 8	59 16 53.7	57 41.8	+58	0.005 2615	855	4 7	19 46
22	040.5	15 55 51.113	832	+ 6	60 14 35.5	57 40.8	+59	0.005 3470	840	4 6	19 47
23	041.5	15 59 47.669	832	+ 3	61 12 16.3	57 39.7	+57	0.005 4310	823	4 5	19 48
24	042.5	16 3 44.225	833	− 3	62 9 56.0	57 38.8	+52	0.005 5133	806	4 4	19 50
25	043.5	16 7 40.782	834	− 8	63 7 34.8	57 37.8	+45	0.005 5939	786	4 3	19 51
26	044.5	16 11 37.338	835	−13	64 5 12.6	57 36.9	+34	0.005 6725	766	4 2	19 52
27	045.5	16 15 33.894	+836	−15	65 2 49.5	57 35.8	+22	0.005 7491	744	4 1	19 53
28	046.5	16 19 30.451	837	−15	66 0 25.3	57 34.8	+ 8	0.005 8235	720	4 0	19 54
29	047.5	16 23 27.007	838	−11	66 58 0.1	57 33.8	− 6	0.005 8955	696	3 59	19 56
30	048.5	16 27 23.564	839	− 6	67 55 33.9	57 32.6	−20	0.005 9651	673	3 58	19 57
31	049.5	16 31 20.120	841	+ 2	68 53 6.5	57 31.5	−33	0.006 0324	649	3 57	19 58
Juni 1	050.5	16 35 16.677	842	+ 9	69 50 38.0	57 30.2	−45	0.006 0973	625	3 56	19 59
2	051.5	16 39 13.234	+843	+13	70 48 8.2	57 28.9	−54	0.006 1598	603	3 56	20 0
3	052.5	16 43 9.790	845	+15	71 45 37.1	57 27.7	−60	0.006 2201	582	3 55	20 1
4	053.5	16 47 6.347	846	+14	72 43 4.8	57 26.5	−63	0.006 2783	563	3 55	20 2
5	054.5	16 51 2.904	847	+11	73 40 31.3	57 25.2	−63	0.006 3346	544	3 54	20 3
6	055.5	16 54 59.461	849	+ 5	74 37 56.5	57 24.1	−58	0.006 3890	526	3 53	20 4
7	056.5	16 58 56.018	851	0	75 35 20.6	57 22.9	−51	0.006 4416	510	3 53	20 5
8	057.5	17 2 52.575	+852	− 5	76 32 43.5	57 21.8	−42	0.006 4926	495	3 52	20 5
9	058.5	17 6 49.132	854	− 7	77 30 5.3	57 20.9	−30	0.006 5421	481	3 52	20 6
10	059.5	17 10 45.689	856	− 8	78 27 26.2	57 19.9	−18	0.006 5902	466	3 51	20 7
11	060.5	17 14 42.246	857	− 6	79 24 46.1	57 19.1	− 6	0.006 6368	451	3 51	20 8
12	061.5	17 18 38.803	859	− 4	80 22 5.2	57 18.4	+ 7	0.006 6819	438	3 51	20 8
13	062.5	17 22 35.360	+861	− 1	81 19 23.6		+19	0.006 7257		3 50	20 9

Tag	Wochentag	0ʰ Welt-Zeit: Zeitgleichung (Wahre Zeit *minus* Mittlere Zeit)		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1938		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juni 13	Mo	+0 20.77	12.31	5 22 14.59	4 8.86	+23 9 43.3	3 32.2	68.84	15 46.72
14	Di	+0 8.46	12.47	5 26 23.45	4 9.03	23 13 15.5	3 7.7	68.87	15 46.63
15	Mi	−0 4.01	12.61	5 30 32.48	4 9.17	23 16 23.2	2 43.0	68.89	15 46.54
16	Do	0 16.62	12.73	5 34 41.65	4 9.29	23 19 6.2	2 18.4	68.90	15 46.45
17	Fr	0 29.35	12.85	5 38 50.94	4 9.40	23 21 24.6	1 53.7	68.92	15 46.37
18	Sa	0 42.20	12.92	5 43 0.34	4 9.48	23 23 18.3	1 28.8	68.93	15 46.29
19	St	−0 55.12	12.98	5 47 9.82	4 9.54	+23 24 47.1	1 4.1	68.94	15 46.22
20	Mo	1 8.10	13.03	5 51 19.36	4 9.59	23 25 51.2	0 39.3	68.94	15 46.15
21	Di	1 21.13	13.04	5 55 28.95	4 9.60	23 26 30.5	0 14.4	68.94	15 46.08
22	Mi	1 34.17	13.04	5 59 38.55	4 9.59	23 26 44.9	0 10.4	68.94	15 46.02
23	Do	1 47.21	13.00	6 3 48.14	4 9.56	23 26 34.5	0 35.2	68.93	15 45.96
24	Fr	2 0.21	12.95	6 7 57.70	4 9.51	23 25 59.3	0 59.9	68.92	15 45.90
25	Sa	−2 13.16	12.87	6 12 7.21	4 9.43	+23 24 59.4	1 24.8	68.91	15 45.85
26	St	2 26.03	12.76	6 16 16.64	4 9.31	23 23 34.6	1 49.5	68.90	15 45.81
27	Mo	2 38.79	12.62	6 20 25.95	4 9.17	23 21 45.1	2 14.1	68.88	15 45.77
28	Di	2 51.41	12.45	6 24 35.12	4 9.01	23 19 31.0	2 38.7	68.86	15 45.74
29	Mi	3 3.86	12.25	6 28 44.13	4 8.81	23 16 52.3	3 3.1	68.83	15 45.72
30	Do	3 16.11	12.03	6 32 52.94	4 8.59	23 13 49.2	3 27.6	68.81	15 45.70
Juli 1	Fr	−3 28.14	11.78	6 37 1.53	4 8.33	+23 10 21.6	3 51.9	68.78	15 45.68
2	Sa	3 39.92	11.50	6 41 9.86	4 8.06	23 6 29.7	4 16.1	68.74	15 45.67
3	St	3 51.42	11.20	6 45 17.92	4 7.76	23 2 13.6	4 40.2	68.70	15 45.67
4	Mo	4 2.62	10.89	6 49 25.68	4 7.44	22 57 33.4	5 4.1	68.66	15 45.67
5	Di	4 13.51	10.54	6 53 33.12	4 7.11	22 52 29.3	5 28.0	68.62	15 45.68
6	Mi	4 24.05	10.19	6 57 40.23	4 6.74	22 47 1.3	5 51.7	68.58	15 45.69
7	Do	−4 34.24	9.82	7 1 46.97	4 6.38	+22 41 9.6	6 15.3	68.53	15 45.70
8	Fr	4 44.06	9.42	7 5 53.35	4 5.98	22 34 54.3	6 38.7	68.47	15 45.72
9	Sa	4 53.48	9.02	7 9 59.33	4 5.57	22 28 15.6	7 2.0	68.42	15 45.74
10	St	5 2.50	8.60	7 14 4.90	4 5.16	22 21 13.6	7 25.1	68.36	15 45.77
11	Mo	5 11.10	8.16	7 18 10.06	4 4.72	22 13 48.5	7 48.0	68.30	15 45.80
12	Di	5 19.26	7.72	7 22 14.78	4 4.27	22 6 0.5	8 10.8	68.24	15 45.83
13	Mi	−5 26.98	7.26	7 26 19.05	4 3.82	+21 57 49.7	8 33.4	68.18	15 45.87
14	Do	5 34.24	6.79	7 30 22.87	4 3.34	21 49 16.3	8 55.9	68.12	15 45.91
15	Fr	5 41.03	6.31	7 34 26.21	4 2.87	21 40 20.4	9 18.0	68.05	15 45.95
16	Sa	5 47.34	5.82	7 38 29.08	4 2.38	21 31 2.4	9 40.1	67.98	15 45.99
17	St	5 53.16	5.32	7 42 31.46	4 1.87	21 21 22.3	10 1.9	67.90	15 46.04
18	Mo	5 58.48	4.80	7 46 33.33	4 1.37	21 11 20.4	10 23.5	67.83	15 46.10
19	Di	−6 3.28	4.29	7 50 34.70	4 0.84	+21 0 56.9	10 44.9	67.76	15 46.15
20	Mi	6 7.57	3.77	7 54 35.54	4 0.32	20 50 12.0	11 6.1	67.68	15 46.21
21	Do	6 11.34	3.22	7 58 35.86	3 59.78	20 39 5.9	11 26.9	67.60	15 46.27
22	Fr	6 14.56	2.68	8 2 35.64	3 59.24	20 27 39.0	11 47.7	67.52	15 46.34
23	Sa	6 17.24	2.13	8 6 34.88	3 58.68	20 15 51.3	12 8.0	67.44	15 46.41
24	St	−6 19.37		8 10 33.56		+20 3 43.3		67.36	15 46.49

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1938.0 Länge		Breite	log R		Aufgang in {+50° Breite, 0ʰ Länge}	Untergang in {+50° Breite, 0ʰ Länge}
1938	2429	h m s	in 0.ˢ001		° ′ ″	′ ″	in 0.″01			h m	h m
Juni 13	062.5	17 22 35.360	+861	− 1	81 19 23.6	57 17.7	+19	0.006 7257	425	3 50	20 9
14	063.5	17 26 31.917	863	+ 3	82 16 41.3	57 17.0	+29	0.006 7682	409	3 50	20 9
15	064.5	17 30 28.474	864	+ 6	83 13 58.3	57 16.5	+39	0.006 8091	395	3 50	20 10
16	065.5	17 34 25.032	866	+ 8	84 11 14.8	57 16.1	+46	0.006 8486	380	3 50	20 10
17	066.5	17 38 21.589	868	+ 8	85 8 30.9	57 15.7	+50	0.006 8866	364	3 50	20 11
18	067.5	17 42 18.146	870	+ 7	86 5 46.6	57 15.4	+53	0.006 9230	348	3 50	20 11
19	068.5	17 46 14.703	+872	+ 4	87 3 2.0	57 15.1	+52	0.006 9578	329	3 50	20 12
20	069.5	17 50 11.260	874	− 1	88 0 17.1	57 15.0	+48	0.006 9907	312	3 50	20 12
21	070.5	17 54 7.818	875	− 6	88 57 32.1	57 14.8	+41	0.007 0219	292	3 50	20 12
22	071.5	17 58 4.375	877	−11	89 54 46.9	57 14.7	+32	0.007 0511	271	3 50	20 12
23	072.5	18 2 0.932	879	−15	90 52 1.6	57 14.6	+22	0.007 0782	247	3 51	20 13
24	073.5	18 5 57.490	881	−16	91 49 16.2	57 14.5	+10	0.007 1029	224	3 51	20 13
25	074.5	18 9 54.047	+883	−14	92 46 30.7	57 14.4	− 4	0.007 1253	199	3 51	20 13
26	075.5	18 13 50.604	885	− 9	93 43 45.1	57 14.3	−18	0.007 1452	172	3 52	20 13
27	076.5	18 17 47.161	887	− 2	94 40 59.4	57 14.1	−32	0.007 1624	144	3 52	20 13
28	077.5	18 21 43.718	889	+ 5	95 38 13.5	57 13.9	−44	0.007 1768	118	3 53	20 13
29	078.5	18 25 40.276	890	+11	96 35 27.4	57 13.6	−53	0.007 1886	91	3 53	20 13
30	079.5	18 29 36.833	892	+15	97 32 41.0	57 13.3	−60	0.007 1977	65	3 54	20 13
Juli 1	080.5	18 33 33.390	+894	+15	98 29 54.3	57 13.0	−63	0.007 2042	39	3 55	20 13
2	081.5	18 37 29.947	896	+12	99 27 7.3	57 12.6	−63	0.007 2081	15	3 55	20 13
3	082.5	18 41 26.504	897	+ 8	100 24 19.9	57 12.3	−60	0.007 2096	−7	3 56	20 12
4	083.5	18 45 23.061	899	+ 2	101 21 32.2	57 12.0	−54	0.007 2089	28	3 56	20 12
5	084.5	18 49 19.618	901	− 3	102 18 44.2	57 11.8	−45	0.007 2061	48	3 57	20 12
6	085.5	18 53 16.175	902	− 6	103 15 56.0	57 11.5	−35	0.007 2013	67	3 58	20 11
7	086.5	18 57 12.732	+904	− 7	104 13 7.5	57 11.3	−23	0.007 1946	85	3 59	20 10
8	087.5	19 1 9.289	905	− 6	105 10 18.8	57 11.3	−11	0.007 1861	101	3 59	20 10
9	088.5	19 5 5.846	907	− 4	106 7 30.1	57 11.3	+ 2	0.007 1760	117	4 0	20 9
10	089.5	19 9 2.403	908	− 1	107 4 41.4	57 11.3	+14	0.007 1643	134	4 1	20 8
11	090.5	19 12 58.959	910	+ 3	108 1 52.7	57 11.5	+25	0.007 1509	148	4 2	20 7
12	091.5	19 16 55.516	911	+ 6	108 59 4.2	57 11.7	+35	0.007 1361	164	4 3	20 7
13	092.5	19 20 52.073	+912	+ 8	109 56 15.9	57 11.9	+44	0.007 1197	179	4 4	20 6
14	093.5	19 24 48.629	914	+ 9	110 53 27.8	57 12.3	+49	0.007 1018	194	4 5	20 6
15	094.5	19 28 45.186	915	+ 8	111 50 40.1	57 12.8	+52	0.007 0824	209	4 6	20 5
16	095.5	19 32 41.742	916	+ 5	112 47 52.9	57 13.3	+51	0.007 0615	225	4 7	20 4
17	096.5	19 36 38.299	917	+ 1	113 45 6.2	57 13.9	+48	0.007 0390	241	4 8	20 3
18	097.5	19 40 34.855	918	− 4	114 42 20.1	57 14.6	+42	0.007 0149	258	4 10	20 2
19	098.5	19 44 31.412	+919	− 9	115 39 34.7	57 15.3	+34	0.006 9891	276	4 11	20 1
20	099.5	19 48 27.968	920	−14	116 36 50.0	57 16.1	+23	0.006 9615	295	4 12	20 0
21	100.5	19 52 24.524	921	−16	117 34 6.1	57 16.9	+11	0.006 9320	317	4 13	19 59
22	101.5	19 56 21.080	922	−15	118 31 23.0	57 17.8	− 2	0.006 9003	337	4 14	19 58
23	102.5	20 0 17.636	922	−12	119 28 40.8	57 18.7	−14	0.006 8666	360	4 16	19 56
24	103.5	20 4 14.192	+923	− 6	120 25 59.5		−27	0.006 8306		4 17	19 55

Tag		Wochentag	0ʰ Welt-Zeit: Zeitgleichung, Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1938			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juli	24	St	−6 19.37	1.57	8 10 33.56	3 58.12	+20 3 43.3	12 28.2	67.36	15 46.49
	25	Mo	6 20.94	0.99	8 14 31.68	3 57.55	19 51 15.1	12 48.1	67.28	15 46.58
	26	Di	6 21.93	0.40	8 18 29.23	3 56.96	19 38 27.0	13 7.7	67.20	15 46.67
	27	Mi	6 22.33	0.19	8 22 26.19	3 56.37	19 25 19.3	13 26.9	67.11	15 46.76
	28	Do	6 22.14	0.79	8 26 22.56	3 55.76	19 11 52.4	13 45.9	67.03	15 46.86
	29	Fr	6 21.35	1.41	8 30 18.32	3 55.15	18 58 6.5	14 4.7	66.94	15 46.97
	30	Sa	−6 19.94	2.02	8 34 13.47	3 54.54	+18 44 1.8	14 23.1	66.85	15 47.08
	31	St	6 17.92	2.64	8 38 8.01	3 53.91	18 29 38.7	14 41.3	66.77	15 47.20
Aug.	1	Mo	6 15.28	3.27	8 42 1.92	3 53.29	18 14 57.4	14 59.0	66.68	15 47.32
	2	Di	6 12.01	3.89	8 45 55.21	3 52.66	17 59 58.4	15 16.6	66.59	15 47.44
	3	Mi	6 8.12	4.52	8 49 47.87	3 52.04	17 44 41.8	15 33.9	66.51	15 47.57
	4	Do	6 3.60	5.13	8 53 39.91	3 51.41	17 29 7.9	15 50.8	66.42	15 47.71
	5	Fr	−5 58.47	5.76	8 57 31.32	3 50.80	+17 13 17.1	16 7.5	66.33	15 47.85
	6	Sa	5 52.71	6.37	9 1 22.12	3 50.19	16 57 9.6	16 23.9	66.25	15 47.99
	7	St	5 46.34	6.97	9 5 12.31	3 49.59	16 40 45.7	16 40.1	66.16	15 48.14
	8	Mo	5 39.37	7.57	9 9 1.90	3 48.98	16 24 5.6	16 55.8	66.07	15 48.29
	9	Di	5 31.80	8.16	9 12 50.88	3 48.39	16 7 9.8	17 11.4	65.99	15 48.44
	10	Mi	5 23.64	8.74	9 16 39.27	3 47.81	15 49 58.4	17 26.6	65.90	15 48.59
	11	Do	−5 14.90	9.32	9 20 27.08	3 47.24	+15 32 31.8	17 41.5	65.82	15 48.74
	12	Fr	5 5.58	9.88	9 24 14.32	3 46.67	15 14 50.3	17 56.2	65.74	15 48.90
	13	Sa	4 55.70	10.43	9 28 0.99	3 46.13	14 56 54.1	18 10.6	65.66	15 49.07
	14	St	4 45.27	10.97	9 31 47.12	3 45.58	14 38 43.5	18 24.7	65.58	15 49.23
	15	Mo	4 34.30	11.50	9 35 32.70	3 45.06	14 20 18.8	18 38.4	65.50	15 49.40
	16	Di	4 22.80	12.01	9 39 17.76	3 44.54	14 1 40.4	18 51.9	65.42	15 49.57
	17	Mi	−4 10.79	12.52	9 43 2.30	3 44.04	+13 42 48.5	19 5.1	65.34	15 49.74
	18	Do	3 58.27	13.00	9 46 46.34	3 43.55	13 23 43.4	19 17.9	65.27	15 49.92
	19	Fr	3 45.27	13.49	9 50 29.89	3 43.07	13 4 25.5	19 30.4	65.19	15 50.09
	20	Sa	3 31.78	13.95	9 54 12.96	3 42.60	12 44 55.1	19 42.7	65.12	15 50.27
	21	St	3 17.83	14.40	9 57 55.56	3 42.15	12 25 12.4	19 54.5	65.05	15 50.45
	22	Mo	3 3.43	14.85	10 1 37.71	3 41.70	12 5 17.9	20 6.2	64.98	15 50.64
	23	Di	−2 48.58	15.29	10 5 19.41	3 41.27	+11 45 11.7	20 17.3	64.92	15 50.84
	24	Mi	2 33.29	15.71	10 9 0.68	3 40.84	11 24 54.4	20 28.2	64.85	15 51.04
	25	Do	2 17.58	16.14	10 12 41.52	3 40.42	11 4 26.2	20 38.7	64.79	15 51.24
	26	Fr	2 1.44	16.54	10 16 21.94	3 40.01	10 43 47.5	20 48.9	64.73	15 51.45
	27	Sa	1 44.90	16.94	10 20 1.95	3 39.61	10 22 58.6	20 58.8	64.67	15 51.66
	28	St	1 27.96	17.32	10 23 41.56	3 39.23	10 1 59.8	21 8.2	64.61	15 51.87
	29	Mo	−1 10.64	17.71	10 27 20.79	3 38.85	+ 9 40 51.6	21 17.4	64.56	15 52.09
	30	Di	0 52.93	18.06	10 30 59.64	3 38.49	9 19 34.2	21 26.2	64.50	15 52.32
	31	Mi	0 34.87	18.41	10 34 38.13	3 38.14	8 58 8.0	21 34.8	64.45	15 52.54
Sept.	1	Do	−0 16.46	18.74	10 38 16.27	3 37.82	8 36 33.2	21 42.9	64.40	15 52.76
	2	Fr	+0 2.28	19.05	10 41 54.09	3 37.50	8 14 50.3	21 50.8	64.36	15 53.00
	3	Sa	+0 21.33		10 45 31.59		+ 7 52 59.5		64.32	15 53.23

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	0h Welt-Zeit, Mittleres Äquinoktium 1938.0 Länge		Breite	log R		Aufgang in +50° Breite 0h Länge	Untergang in +50° Breite 0h Länge
1938	2429	h m s	in 0.001 s		° ′ ″	′ ″	in 0.01″			h m	h m
Juli 24	103.5	20 4 14.192	+923	− 6	120 25 59.5	57 19.5	−27	0.006 8306	385	4 17	19 55
25	104.5	20 8 10.748	924	+ 1	121 23 19.0	57 20.3	−40	0.006 7921	409	4 18	19 54
26	105.5	20 12 7.304	924	+ 8	122 20 39.3	57 21.1	−49	0.006 7512	436	4 19	19 53
27	106.5	20 16 3.860	924	+12	123 18 0.4	57 21.8	−56	0.006 7076	462	4 21	19 51
28	107.5	20 20 0.415	925	+14	124 15 22.2	57 22.5	−59	0.006 6614	488	4 22	19 50
29	108.5	20 23 56.971	925	+13	125 12 44.7	57 23.1	−59	0.006 6126	512	4 24	19 48
30	109.5	20 27 53.526	+925	+ 9	126 10 7.8	57 23.8	−56	0.006 5614	536	4 25	19 47
31	110.5	20 31 50.082	925	+ 3	127 7 31.6	57 24.3	−51	0.006 5078	559	4 26	19 45
Aug. 1	111.5	20 35 46.637	925	− 2	128 4 55.9	57 24.9	−44	0.006 4519	579	4 28	19 44
2	112.5	20 39 43.192	925	− 5	129 2 20.8	57 25.5	−33	0.006 3940	599	4 29	19 42
3	113.5	20 43 39.748	925	− 7	129 59 46.3	57 26.2	−20	0.006 3341	618	4 31	19 41
4	114.5	20 47 36.303	924	− 7	130 57 12.5	57 26.9	− 8	0.006 2723	635	4 32	19 39
5	115.5	20 51 32.858	+924	− 5	131 54 39.4	57 27.6	+ 4	0.006 2088	649	4 33	19 37
6	116.5	20 55 29.413	924	− 1	132 52 7.0	57 28.4	+15	0.006 1439	665	4 35	19 36
7	117.5	20 59 25.967	923	+ 2	133 49 35.4	57 29.2	+26	0.006 0774	679	4 36	19 34
8	118.5	21 3 22.522	923	+ 6	134 47 4.6	57 30.2	+36	0.006 0095	692	4 38	19 33
9	119.5	21 7 19.077	922	+ 8	135 44 34.8	57 31.1	+43	0.005 9403	704	4 39	19 31
10	120.5	21 11 15.632	921	+ 9	136 42 5.9	57 32.2	+49	0.005 8699	715	4 40	19 29
11	121.5	21 15 12.186	+920	+ 9	137 39 38.1	57 33.4	+52	0.005 7984	728	4 42	19 27
12	122.5	21 19 8.740	919	+ 7	138 37 11.5	57 34.5	+52	0.005 7256	739	4 43	19 26
13	123.5	21 23 5.295	918	+ 3	139 34 46.0	57 35.8	+50	0.005 6517	750	4 45	19 24
14	124.5	21 27 1.849	917	− 2	140 32 21.8	57 37.2	+45	0.005 5767	761	4 46	19 22
15	125.5	21 30 58.403	916	− 7	141 29 59.0	57 38.7	+37	0.005 5006	774	4 48	19 20
16	126.5	21 34 54.957	915	−12	142 27 37.7	57 40.2	+27	0.005 4232	785	4 49	19 18
17	127.5	21 38 51.511	+913	−14	143 25 17.9	57 41.7	+16	0.005 3447	799	4 51	19 16
18	128.5	21 42 48.065	912	−15	144 22 59.6	57 43.3	+ 3	0.005 2648	813	4 52	19 14
19	129.5	21 46 44.619	910	−13	145 20 42.9	57 45.1	−10	0.005 1835	827	4 54	19 12
20	130.5	21 50 41.173	909	− 8	146 18 28.0	57 46.7	−23	0.005 1008	846	4 55	19 10
21	131.5	21 54 37.726	907	− 2	147 16 14.7	57 48.3	−34	0.005 0162	863	4 57	19 8
22	132.5	21 58 34.280	905	+ 5	148 14 3.0	57 50.1	−44	0.004 9299	881	4 58	19 6
23	133.5	22 2 30.833	+903	+10	149 11 53.1	57 51.7	−51	0.004 8418	901	5 0	19 4
24	134.5	22 6 27.387	901	+12	150 9 44.8	57 53.3	−55	0.004 7517	922	5 1	19 2
25	135.5	22 10 23.940	899	+12	151 7 38.1	57 54.8	−56	0.004 6595	942	5 3	19 0
26	136.5	22 14 20.493	897	+ 9	152 5 32.9	57 56.3	−54	0.004 5653	962	5 4	18 58
27	137.5	22 18 17.047	895	+ 4	153 3 29.2	57 57.7	−48	0.004 4691	981	5 6	18 56
28	138.5	22 22 13.600	893	− 1	154 1 26.9	57 59.1	−40	0.004 3710	1000	5 7	18 54
29	139.5	22 26 10.153	+891	− 5	154 59 26.0	58 0.5	−30	0.004 2710	1017	5 9	18 52
30	140.5	22 30 6.706	888	− 7	155 57 26.5	58 1.9	−19	0.004 1693	1033	5 10	18 50
31	141.5	22 34 3.259	886	− 7	156 55 28.4	58 3.2	− 7	0.004 0660	1046	5 12	18 48
Sept. 1	142.5	22 37 59.812	883	− 6	157 53 31.6	58 4.6	+ 6	0.003 9614	1059	5 13	18 46
2	143.5	22 41 56.364	881	− 3	158 51 36.2	58 6.0	+19	0.003 8555	1070	5 15	18 44
3	144.5	22 45 52.917	+878	+ 1	159 49 42.2		+32	0.003 7485		5 16	18 42

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung (Wahre Zeit *minus* Mittlere Zeit)		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1938		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Sept. 3	Sa	+ 0 21.33	19.34	10 45 31.59	3 37.21	+7 52 59.5	21 58.3	64.32	15 53.23
4	St	0 40.67	19.62	10 49 8.80	3 36.93	7 31 1.2	22 5.6	64.28	15 53.47
5	Mo	1 0.29	19.88	10 52 45.73	3 36.67	7 8 55.6	22 12.6	64.24	15 53.71
6	Di	1 20.17	20.12	10 56 22.40	3 36.44	6 46 43.0	22 19.1	64.20	15 53.95
7	Mi	1 40.29	20.33	10 59 58.84	3 36.22	6 24 23.9	22 25.4	64.17	15 54.19
8	Do	2 0.62	20.53	11 3 35.06	3 36.02	6 1 58.5	22 31.4	64.14	15 54.44
9	Fr	+ 2 21.15	20.70	11 7 11.08	3 35.85	+5 39 27.1	22 37.1	64.12	15 54.68
10	Sa	2 41.85	20.86	11 10 46.93	3 35.70	5 16 50.0	22 42.5	64.09	15 54.93
11	St	3 2.71	20.99	11 14 22.63	3 35.56	4 54 7.5	22 47.6	64.07	15 55.18
12	Mo	3 23.70	21.09	11 17 58.19	3 35.47	4 31 19.9	22 52.4	64.05	15 55.42
13	Di	3 44.79	21.17	11 21 33.66	3 35.38	4 8 27.5	22 56.8	64.04	15 55.67
14	Mi	4 5.96	21.23	11 25 9.04	3 35.31	3 45 30.7	23 0.9	64.03	15 55.92
15	Do	+ 4 27.19	21.28	11 28 44.35	3 35.28	+3 22 29.8	23 4.8	64.02	15 56.17
16	Fr	4 48.47	21.29	11 32 19.63	3 35.26	2 59 25.0	23 8.2	64.01	15 56.42
17	Sa	5 9.76	21.28	11 35 54.89	3 35.27	2 36 16.8	23 11.4	64.01	15 56.67
18	St	5 31.04	21.26	11 39 30.16	3 35.29	2 13 5.4	23 14.2	64.01	15 56.93
19	Mo	5 52.30	21.22	11 43 5.45	3 35.34	1 49 51.2	23 16.6	64.01	15 57.18
20	Di	6 13.52	21.15	11 46 40.79	3 35.40	1 26 34.6	23 18.8	64.01	15 57.44
21	Mi	+ 6 34.67	21.08	11 50 16.19	3 35.47	+1 3 15.8	23 20.6	64.02	15 57.70
22	Do	6 55.75	20.98	11 53 51.66	3 35.57	0 39 55.2	23 21.9	64.03	15 57.96
23	Fr	7 16.73	20.87	11 57 27.23	3 35.68	+0 16 33.3	23 23.0	64.05	15 58.23
24	Sa	7 37.60	20.75	12 1 2.91	3 35.81	−0 6 49.7	23 23.6	64.07	15 58.50
25	St	7 58.35	20.60	12 4 38.72	3 35.95	0 30 13.3	23 23.9	64.09	15 58.77
26	Mo	8 18.95	20.44	12 8 14.67	3 36.11	0 53 37.2	23 23.9	64.11	15 59.04
27	Di	+ 8 39.39	20.27	12 11 50.78	3 36.29	−1 17 1.1	23 23.4	64.14	15 59.31
28	Mi	8 59.66	20.07	12 15 27.07	3 36.48	1 40 24.5	23 22.6	64.17	15 59.59
29	Do	9 19.73	19.85	12 19 3.55	3 36.70	2 3 47.1	23 21.5	64.20	15 59.87
30	Fr	9 39.58	19.62	12 22 40.25	3 36.93	2 27 8.6	23 20.1	64.23	16 0.15
Okt. 1	Sa	9 59.20	19.37	12 26 17.18	3 37.18	2 50 28.7	23 18.2	64.27	16 0.42
2	St	10 18.57	19.09	12 29 54.36	3 37.46	3 13 46.9	23 16.0	64.32	16 0.71
3	Mo	+10 37.66	18.80	12 33 31.82	3 37.75	−3 37 2.9	23 13.5	64.36	16 0.99
4	Di	10 56.46	18.48	12 37 9.57	3 38.07	4 0 16.4	23 10.6	64.41	16 1.27
5	Mi	11 14.94	18.15	12 40 47.64	3 38.41	4 23 27.0	23 7.4	64.46	16 1.55
6	Do	11 33.09	17.78	12 44 26.05	3 38.77	4 46 34.4	23 3.8	64.51	16 1.83
7	Fr	11 50.87	17.41	12 48 4.82	3 39.15	5 9 38.2	22 59.9	64.57	16 2.11
8	Sa	12 8.28	17.00	12 51 43.97	3 39.55	5 32 38.1	22 55.7	64.63	16 2.40
9	St	+12 25.28	16.57	12 55 23.52	3 39.98	−5 55 33.8	22 51.0	64.69	16 2.67
10	Mo	12 41.85	16.12	12 59 3.50	3 40.43	6 18 24.8	22 46.1	64.75	16 2.95
11	Di	12 57.97	15.65	13 2 43.93	3 40.91	6 41 10.9	22 40.7	64.82	16 3.22
12	Mi	13 13.62	15.15	13 6 24.84	3 41.40	7 3 51.6	22 35.1	64.89	16 3.49
13	Do	13 28.77	14.63	13 10 6.24	3 41.92	7 26 26.7	22 29.0	64.97	16 3.77
14	Fr	+13 43.40		13 13 48.16		−7 48 55.7		65.04	16 4.04

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1938.0 Länge	Diff.	Breite	log R	Diff.	Aufgang in {+50° Breite, 0h Länge}	Untergang
1938	2429	h m s	s in 0.001		° ′ ″	′ ″	″ in 0.01			h m	h m
Sept. 3	144.5	22 45 52.917	+878	+ 1	159 49 42.2	58 7.4	+32	0.003 7485	1081	5 16	18 42
4	145.5	22 49 49.470	875	+ 5	160 47 49.6	58 8.8	+42	0.003 6404	1089	5 18	18 40
5	146.5	22 53 46.022	873	+ 8	161 45 58.4	58 10.4	+49	0.003 5315	1096	5 19	18 38
6	147.5	22 57 42.575	870	+10	162 44 8.8	58 12.0	+55	0.003 4219	1102	5 21	18 35
7	148.5	23 1 39.127	867	+10	163 42 20.8	58 13.6	+58	0.003 3117	1110	5 22	18 33
8	149.5	23 5 35.680	864	+ 8	164 40 34.4	58 15.2	+59	0.003 2007	1112	5 24	18 31
9	150.5	23 9 32.232	+861	+ 5	165 38 49.6	58 17.0	+57	0.003 0895	1118	5 25	18 29
10	151.5	23 13 28.785	858	0	166 37 6.6	58 18.8	+52	0.002 9777	1121	5 27	18 27
11	152.5	23 17 25.337	855	− 5	167 35 25.4	58 20.7	+45	0.002 8656	1124	5 28	18 24
12	153.5	23 21 21.889	852	−10	168 33 46.1	58 22.6	+35	0.002 7532	1128	5 30	18 22
13	154.5	23 25 18.442	849	−13	169 32 8.7	58 24.7	+24	0.002 6404	1131	5 31	18 20
14	155.5	23 29 14.994	846	−14	170 30 33.4	58 26.7	+10	0.002 5273	1134	5 33	18 18
15	156.5	23 33 11.546	+843	−13	171 29 0.1	58 28.9	− 3	0.002 4139	1140	5 34	18 16
16	157.5	23 37 8.098	839	− 9	172 27 29.0	58 31.1	−15	0.002 2999	1145	5 36	18 13
17	158.5	23 41 4.650	836	− 3	173 26 0.1	58 33.3	−27	0.002 1854	1153	5 37	18 11
18	159.5	23 45 1.202	833	+ 3	174 24 33.4	58 35.6	−37	0.002 0701	1160	5 39	18 9
19	160.5	23 48 57.754	830	+ 8	175 23 9.0	58 37.8	−45	0.001 9541	1170	5 40	18 7
20	161.5	23 52 54.307	826	+12	176 21 46.8	58 39.9	−48	0.001 8371	1179	5 42	18 5
21	162.5	23 56 50.859	+823	+12	177 20 26.7	58 42.1	−49	0.001 7192	1190	5 43	18 2
22	163.5	0 0 47.411	820	+ 9	178 19 8.8	58 44.2	−48	0.001 6002	1201	5 45	18 0
23	164.5	0 4 43.963	816	+ 5	179 17 53.0	58 46.2	−43	0.001 4801	1213	5 46	17 58
24	165.5	0 8 40.515	813	0	180 16 39.2	58 48.2	−35	0.001 3588	1224	5 48	17 56
25	166.5	0 12 37.067	810	− 4	181 15 27.4	58 50.1	−25	0.001 2364	1234	5 49	17 54
26	167.5	0 16 33.619	806	− 7	182 14 17.5	58 52.0	−13	0.001 1130	1243	5 51	17 51
27	168.5	0 20 30.171	+803	− 8	183 13 9.5	58 53.8	+ 1	0.000 9887	1252	5 52	17 49
28	169.5	0 24 26.723	800	− 7	184 12 3.3	58 55.5	+15	0.000 8635	1258	5 54	17 47
29	170.5	0 28 23.275	796	− 4	185 10 58.8	58 57.4	+28	0.000 7377	1265	5 56	17 45
30	171.5	0 32 19.827	793	0	186 9 56.2	58 59.1	+40	0.000 6112	1267	5 57	17 43
Okt. 1	172.5	0 36 16.379	790	+ 3	187 8 55.3	59 0.8	+51	0.000 4845	1270	5 59	17 40
2	173.5	0 40 12.931	787	+ 7	188 7 56.1	59 2.7	+59	0.000 3575	1272	6 0	17 38
3	174.5	0 44 9.483	+783	+ 9	189 6 58.8	59 4.4	+65	0.000 2303	1271	6 2	17 36
4	175.5	0 48 6.036	780	+10	190 6 3.2	59 6.2	+69	0.000 1032	1271	6 3	17 34
5	176.5	0 52 2.588	777	+ 9	191 5 9.4	59 8.0	+70	9.999 9761	1266	6 5	17 32
6	177.5	0 55 59.140	774	+ 6	192 4 17.4	59 9.9	+69	9.999 8495	1264	6 6	17 29
7	178.5	0 59 55.692	771	+ 2	193 3 27.3	59 11.8	+65	9.999 7231	1259	6 8	17 27
8	179.5	1 3 52.245	768	− 3	194 2 39.1	59 13.7	+58	9.999 5972	1252	6 9	17 25
9	180.5	1 7 48.797	+765	− 8	195 1 52.8	59 15.8	+49	9.999 4720	1245	6 11	17 23
10	181.5	1 11 45.349	762	−12	196 1 8.6	59 17.9	+37	9.999 3475	1238	6 12	17 21
11	182.5	1 15 41.902	759	−14	197 0 26.5	59 20.0	+24	9.999 2237	1231	6 14	17 19
12	183.5	1 19 38.454	756	−13	197 59 46.5	59 22.2	+10	9.999 1006	1223	6 15	17 17
13	184.5	1 23 35.007	753	−10	198 59 8.7	59 24.4	− 2	9.998 9783	1216	6 17	17 15
14	185.5	1 27 31.560	+751	− 4	199 58 33.1		−14	9.998 8567		6 19	17 13

Tag	Wochentag	0ʰ Welt-Zeit: Zeitgleichung Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1938		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Okt. 14	Fr	+13 43.40	14.08	13 13 48.16	3 42.47	− 7 48 55.7	22 22.6	65.04	16 4.04
15	Sa	13 57.48	13.53	13 17 30.63	3 43.03	8 11 18.3	22 15.9	65.12	16 4.30
16	St	14 11.01	12.94	13 21 13.66	3 43.61	8 33 34.2	22 8.7	65.20	16 4.57
17	Mo	14 23.95	12.34	13 24 57.27	3 44.21	8 55 42.9	22 1.1	65.29	16 4.83
18	Di	14 36.29	11.73	13 28 41.48	3 44.82	9 17 44.0	21 53.2	65.37	16 5.11
19	Mi	14 48.02	11.10	13 32 26.30	3 45.46	9 39 37.2	21 44.8	65.46	16 5.37
20	Do	+14 59.12	10.45	13 36 11.76	3 46.10	−10 1 22.0	21 36.1	65.55	16 5.64
21	Fr	15 9.57	9.80	13 39 57.86	3 46.75	10 22 58.1	21 27.0	65.65	16 5.90
22	Sa	15 19.37	9.13	13 43 44.61	3 47.42	10 44 25.1	21 17.3	65.74	16 6.17
23	St	15 28.50	8.46	13 47 32.03	3 48.10	11 5 42.4	21 7.4	65.84	16 6.43
24	Mo	15 36.96	7.76	13 51 20.13	3 48.79	11 26 49.8	20 57.0	65.94	16 6.70
25	Di	15 44.72	7.06	13 55 8.92	3 49.49	11 47 46.8	20 46.2	66.04	16 6.97
26	Mi	+15 51.78	6.36	13 58 58.41	3 50.20	−12 8 33.0	20 34.9	66.14	16 7.23
27	Do	15 58.14	5.63	14 2 48.61	3 50.92	12 29 7.9	20 23.3	66.25	16 7.50
28	Fr	16 3.77	4.90	14 6 39.53	3 51.65	12 49 31.2	20 11.3	66.35	16 7.76
29	Sa	16 8.67	4.16	14 10 31.18	3 52.40	13 9 42.5	19 58.8	66.46	16 8.02
30	St	16 12.83	3.41	14 14 23.58	3 53.14	13 29 41.3	19 46.0	66.57	16 8.29
31	Mo	16 16.24	2.65	14 18 16.72	3 53.91	13 49 27.3	19 32.8	66.68	16 8.55
Nov. 1	Di	+16 18.89	1.88	14 22 10.63	3 54.67	−14 9 0.1	19 19.1	66.80	16 8.81
2	Mi	16 20.77	1.08	14 26 5.30	3 55.47	14 28 19.2	19 5.1	66.91	16 9.07
3	Do	16 21.85	0.30	14 30 0.77	3 56.26	14 47 24.3	18 50.6	67.02	16 9.32
4	Fr	16 22.15	0.50	14 33 57.03	3 57.05	15 6 14.9	18 35.8	67.14	16 9.57
5	Sa	16 21.65	1.31	14 37 54.08	3 57.87	15 24 50.7	18 20.5	67.26	16 9.83
6	St	16 20.34	2.13	14 41 51.95	3 58.68	15 43 11.2	18 4.9	67.37	16 10.07
7	Mo	+16 18.21	2.96	14 45 50.63	3 59.52	−16 1 16.1	17 48.9	67.49	16 10.31
8	Di	16 15.25	3.80	14 49 50.15	4 0.36	16 19 5.0	17 32.4	67.61	16 10.55
9	Mi	16 11.45	4.65	14 53 50.51	4 1.20	16 36 37.4	17 15.7	67.73	16 10.78
10	Do	16 6.80	5.50	14 57 51.71	4 2.06	16 53 53.1	16 58.4	67.85	16 11.01
11	Fr	16 1.30	6.37	15 1 53.77	4 2.92	17 10 51.5	16 40.9	67.97	16 11.24
12	Sa	15 54.93	7.23	15 5 56.69	4 3.79	17 27 32.4	16 22.9	68.09	16 11.46
13	St	+15 47.70	8.11	15 10 0.48	4 4.66	−17 43 55.3	16 4.5	68.21	16 11.68
14	Mo	15 39.59	8.97	15 14 5.14	4 5.53	17 59 59.8	15 45.7	68.33	16 11.89
15	Di	15 30.62	9.85	15 18 10.67	4 6.40	18 15 45.5	15 26.6	68.45	16 12.11
16	Mi	15 20.77	10.70	15 22 17.07	4 7.26	18 31 12.1	15 7.0	68.57	16 12.32
17	Do	15 10.07	11.57	15 26 24.33	4 8.12	18 46 19.1	14 47.0	68.68	16 12.52
18	Fr	14 58.50	12.41	15 30 32.45	4 8.97	19 1 6.1	14 26.7	68.80	16 12.72
19	Sa	+14 46.09	13.26	15 34 41.42	4 9.81	−19 15 32.8	14 5.9	68.91	16 12.92
20	St	14 32.83	14.08	15 38 51.23	4 10.64	19 29 38.7	13 44.9	69.03	16 13.12
21	Mo	14 18.75	14.90	15 43 1.87	4 11.45	19 43 23.6	13 23.3	69.14	16 13.32
22	Di	14 3.85	15.70	15 47 13.32	4 12.26	19 56 46.9	13 1.4	69.25	16 13.51
23	Mi	13 48.15	16.49	15 51 25.58	4 13.05	20 9 48.3	12 39.2	69.36	16 13.70
24	Do	+13 31.66		15 55 38.63		−20 22 27.5		69.47	16 13.89

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	kurzp. Gl.	Mittleres Äquinoktium 1938.0 Länge		Breite	log *R*		Auf-gang	Unter-gang
	0ʰ Welt-Zeit									in {+50° Breite, 0ʰ Länge	
1938	2429	h m s	s in 0.001		° ′ ″	′ ″	″ in 0.01			h m	h m
Okt. 14	185.5	1 27 31.560	+751	− 4	199 58 33.1	59 26.8	−14	9.998 8567	1211	6 19	17 13
15	186.5	1 31 28.112	748	+ 2	200 57 59.9	59 29.1	−25	9.998 7356	1206	6 20	17 11
16	187.5	1 35 24.665	745	+ 8	201 57 29.0	59 31.4	−33	9.998 6150	1202	6 22	17 9
17	188.5	1 39 21.218	743	+11	202 57 0.4	59 33.7	−38	9.998 4948	1199	6 23	17 7
18	189.5	1 43 17.771	740	+12	203 56 34.1	59 36.1	−40	9.998 3749	1196	6 25	17 5
19	190.5	1 47 14.324	738	+11	204 56 10.2	59 38.3	−39	9.998 2553	1196	6 27	17 3
20	191.5	1 51 10.877	+735	+ 7	205 55 48.5	59 40.6	−35	9.998 1357	1195	6 28	17 1
21	192.5	1 55 7.430	733	+ 2	206 55 29.1	59 42.7	−26	9.998 0162	1196	6 30	16 59
22	193.5	1 59 3.983	731	− 3	207 55 11.8	59 44.8	−16	9.997 8966	1197	6 31	16 57
23	194.5	2 3 0.536	729	− 7	208 54 56.6	59 46.8	− 5	9.997 7769	1196	6 33	16 55
24	195.5	2 6 57.090	727	− 8	209 54 43.4	59 48.7	+ 8	9.997 6573	1196	6 35	16 53
25	196.5	2 10 53.643	725	− 8	210 54 32.1	59 50.5	+22	9.997 5377	1195	6 37	16 51
26	197.5	2 14 50.196	+723	− 6	211 54 22.6	59 52.4	+36	9.997 4182	1193	6 38	16 49
27	198.5	2 18 46.750	721	− 2	212 54 15.0	59 54.1	+49	9.997 2989	1189	6 40	16 47
28	199.5	2 22 43.304	720	+ 2	213 54 9.1	59 55.9	+61	9.997 1800	1185	6 42	16 45
29	200.5	2 26 39.857	718	+ 5	214 54 5.0	59 57.5	+71	9.997 0615	1178	6 44	16 43
30	201.5	2 30 36.411	717	+ 8	215 54 2.5	59 59.2	+78	9.996 9437	1171	6 45	16 42
31	202.5	2 34 32.965	715	+ 9	216 54 1.7	60 0.8	+82	9.996 8266	1163	6 47	16 40
Nov. 1	203.5	2 38 29.519	+714	+ 9	217 54 2.5	60 2.4	+85	9.996 7103	1154	6 48	16 39
2	204.5	2 42 26.073	713	+ 7	218 54 4.9	60 4.0	+84	9.996 5949	1141	6 50	16 37
3	205.5	2 46 22.628	711	+ 3	219 54 8.9	60 5.6	+80	9.996 4808	1128	6 52	16 35
4	206.5	2 50 19.182	710	− 2	220 54 14.5	60 7.2	+74	9.996 3680	1115	6 53	16 33
5	207.5	2 54 15.736	710	− 7	221 54 21.7	60 8.9	+66	9.996 2565	1100	6 55	16 32
6	208.5	2 58 12.291	709	−11	222 54 30.6	60 10.5	+55	9.996 1465	1082	6 56	16 30
7	209.5	3 2 8.846	+708	−14	223 54 41.1	60 12.3	+43	9.996 0383	1066	6 58	16 28
8	210.5	3 6 5.400	707	−14	224 54 53.4	60 14.0	+30	9.995 9317	1046	7 0	16 27
9	211.5	3 10 1.955	707	−11	225 55 7.4	60 15.8	+16	9.995 8271	1029	7 1	16 25
10	212.5	3 13 58.510	706	− 6	226 55 23.2	60 17.7	+ 3	9.995 7242	1011	7 3	16 24
11	213.5	3 17 55.065	706	+ 1	227 55 40.9	60 19.6	− 8	9.995 6231	992	7 4	16 22
12	214.5	3 21 51.620	706	+ 7	228 56 0.5	60 21.5	−17	9.995 5239	975	7 6	16 21
13	215.5	3 25 48.175	+706	+11	229 56 22.0	60 23.5	−23	9.995 4264	960	7 8	16 20
14	216.5	3 29 44.731	705	+13	230 56 45.5	60 25.5	−26	9.995 3304	945	7 10	16 18
15	217.5	3 33 41.286	706	+12	231 57 11.0	60 27.4	−25	9.995 2359	931	7 11	16 17
16	218.5	3 37 37.842	706	+ 9	232 57 38.4	60 29.2	−21	9.995 1428	918	7 13	16 15
17	219.5	3 41 34.397	706	+ 4	233 58 7.6	60 31.1	−14	9.995 0510	908	7 15	16 14
18	220.5	3 45 30.953	706	− 1	234 58 38.7	60 32.9	− 4	9.994 9602	897	7 16	16 13
19	221.5	3 49 27.509	+707	− 5	235 59 11.6	60 34.6	+ 7	9.994 8705	886	7 18	16 12
20	222.5	3 53 24.065	707	− 8	236 59 46.2	60 36.2	+20	9.994 7819	877	7 19	16 11
21	223.5	3 57 20.621	708	− 8	238 0 22.4	60 37.7	+34	9.994 6942	866	7 21	16 10
22	224.5	4 1 17.177	709	− 6	239 1 0.1	60 39.1	+49	9.994 6076	856	7 22	16 9
23	225.5	4 5 13.733	709	− 3	240 1 39.2	60 40.5	+62	9.994 5220	846	7 24	16 8
24	226.5	4 9 10.289	+710	0	241 2 19.7		+75	9.994 4374		7 25	16 7

Tag	Wochentag	0ʰ Welt-Zeit: Zeitgleichung, Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1938		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Nov. 24	Do	+13 31.66	17.26	15 55 38.63	4 13.81	−20 22 27.5	12 16.7	69.47	16 13.89
25	Fr	13 14.40	18.01	15 59 52.44	4 14.57	20 34 44.2	11 53.7	69.58	16 14.08
26	Sa	12 56.39	18.75	16 4 7.01	4 15.31	20 46 37.9	11 30.4	69.68	16 14.26
27	St	12 37.64	19.48	16 8 22.32	4 16.03	20 58 8.3	11 6.8	69.78	16 14.45
28	Mo	12 18.16	20.18	16 12 38.35	4 16.74	21 9 15.1	10 43.0	69.88	16 14.62
29	Di	11 57.98	20.86	16 16 55.09	4 17.42	21 19 58.1	10 18.7	69.98	16 14.80
30	Mi	+11 37.12	21.52	16 21 12.51	4 18.08	−21 30 16.8	9 54.1	70.07	16 14.97
Dez. 1	Do	11 15.60	22.17	16 25 30.59	4 18.72	21 40 10.9	9 29.3	70.17	16 15.14
2	Fr	10 53.43	22.79	16 29 49.31	4 19.35	21 49 40.2	9 4.3	70.26	16 15.30
3	Sa	10 30.64	23.40	16 34 8.66	4 19.95	21 58 44.5	8 38.8	70.34	16 15.46
4	St	10 7.24	23.97	16 38 28.61	4 20.53	22 7 23.3	8 13.2	70.42	16 15.61
5	Mo	9 43.27	24.54	16 42 49.14	4 21.10	22 15 36.5	7 47.3	70.50	16 15.75
6	Di	+ 9 18.73	25.08	16 47 10.24	4 21.63	−22 23 23.8	7 21.2	70.58	16 15.90
7	Mi	8 53.65	25.59	16 51 31.87	4 22.16	22 30 45.0	6 54.8	70.65	16 16.04
8	Do	8 28.06	26.10	16 55 54.03	4 22.65	22 37 39.8	6 28.3	70.72	16 16.17
9	Fr	8 1.96	26.57	17 0 16.68	4 23.13	22 44 8.1	6 1.5	70.79	16 16.29
10	Sa	7 35.39	27.02	17 4 39.81	4 23.58	22 50 9.6	5 34.4	70.85	16 16.41
11	St	7 8.37	27.45	17 9 3.39	4 24.01	22 55 44.0	5 7.3	70.91	16 16.52
12	Mo	+ 6 40.92	27.85	17 13 27.40	4 24.40	−23 0 51.3	4 40.0	70.96	16 16.63
13	Di	6 13.07	28.22	17 17 51.80	4 24.78	23 5 31.3	4 12.4	71.01	16 16.73
14	Mi	5 44.85	28.57	17 22 16.58	4 25.12	23 9 43.7	3 44.8	71.05	16 16.83
15	Do	5 16.28	28.87	17 26 41.70	4 25.43	23 13 28.5	3 17.0	71.09	16 16.92
16	Fr	4 47.41	29.14	17 31 7.13	4 25.70	23 16 45.5	2 49.1	71.13	16 17.01
17	Sa	4 18.27	29.38	17 35 32.83	4 25.93	23 19 34.6	2 21.1	71.16	16 17.09
18	St	+ 3 48.89	29.58	17 39 58.76	4 26.14	−23 21 55.7	1 53.1	71.19	16 17.17
19	Mo	3 19.31	29.74	17 44 24.90	4 26.30	23 23 48.8	1 24.9	71.21	16 17.25
20	Di	2 49.57	29.86	17 48 51.20	4 26.43	23 25 13.7	0 56.7	71.23	16 17.32
21	Mi	2 19.71	29.96	17 53 17.63	4 26.51	23 26 10.4	0 28.4	71.24	16 17.39
22	Do	1 49.75	30.00	17 57 44.14	4 26.56	23 26 38.8	0 0.2	71.25	16 17.45
23	Fr	1 19.75	30.01	18 2 10.70	4 26.57	23 26 39.0	0 28.1	71.26	16 17.51
24	Sa	+ 0 49.74	29.99	18 6 37.27	4 26.54	−23 26 10.9	0 56.3	71.26	16 17.57
25	St	+ 0 19.75	29.92	18 11 3.81	4 26.48	23 25 14.6	1 24.6	71.25	16 17.62
26	Mo	− 0 10.17	29.83	18 15 30.29	4 26.38	23 23 50.0	1 52.8	71.24	16 17.67
27	Di	0 40.00	29.68	18 19 56.67	4 26.24	23 21 57.2	2 20.9	71.23	16 17.72
28	Mi	1 9.68	29.51	18 24 22.91	4 26.08	23 19 36.3	2 49.0	71.21	16 17.76
29	Do	1 39.19	29.31	18 28 48.99	4 25.86	23 16 47.3	3 17.0	71.19	16 17.79
30	Fr	− 2 8.50	29.06	18 33 14.85	4 25.62	−23 13 30.3	3 44.8	71.16	16 17.82
31	Sa	2 37.56	28.79	18 37 40.47	4 25.34	23 9 45.5	4 12.7	71.12	16 17.85
32	St	− 3 6.35		18 42 5.81		−23 5 32.8		71.08	16 17.87

Tag	0h Welt-Zeit Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1938.0 Länge		Breite	log R		Aufgang in {+50° Breite 0h Länge	Untergang in {+50° Breite 0h Länge
1938	2429	h m s	in 0.001 s		° ′ ″	′ ″	in 0.″01			h m	h m
Nov. 24	226.5	4 9 10.289	+710	0	241 2 19.7	60 41.8	+ 75	9.994 4374	833	7 25	16 7
25	227.5	4 13 6.845	711	+ 4	242 3 1.5	60 43.0	+ 85	9.994 3541	822	7 27	16 6
26	228.5	4 17 3.402	712	+ 7	243 3 44.5	60 44.2	+ 93	9.994 2719	808	7 28	16 5
27	229.5	4 20 59.958	713	+ 9	244 4 28.7	60 45.2	+ 99	9.994 1911	793	7 30	16 4
28	230.5	4 24 56.515	714	+ 9	245 5 13.9	60 46.3	+102	9.994 1118	778	7 31	16 3
29	231.5	4 28 53.071	716	+ 7	246 6 0.2	60 47.3	+102	9.994 0340	762	7 33	16 3
30	232.5	4 32 49.628	+717	+ 4	247 6 47.5	60 48.2	+ 99	9.993 9578	743	7 34	16 2
Dez. 1	233.5	4 36 46.185	718	0	248 7 35.7	60 49.2	+ 94	9.993 8835	724	7 36	16 2
2	234.5	4 40 42.742	720	− 6	249 8 24.9	60 50.0	+ 87	9.993 8111	703	7 37	16 1
3	235.5	4 44 39.299	722	−11	250 9 14.9	60 50.9	+ 77	9.993 7408	682	7 38	16 1
4	236.5	4 48 35.856	723	−14	251 10 5.8	60 51.8	+ 66	9.993 6726	657	7 39	16 0
5	237.5	4 52 32.413	725	−15	252 10 57.6	60 52.7	+ 53	9.993 6069	634	7 41	16 0
6	238.5	4 56 28.970	+727	−13	253 11 50.3	60 53.6	+ 40	9.993 5435	607	7 42	15 59
7	239.5	5 0 25.527	728	− 9	254 12 43.9	60 54.6	+ 27	9.993 4828	581	7 43	15 59
8	240.5	5 4 22.084	730	− 2	255 13 38.5	60 55.6	+ 14	9.993 4247	553	7 44	15 59
9	241.5	5 8 18.641	732	+ 4	256 14 34.1	60 56.6	+ 4	9.993 3694	528	7 45	15 59
10	242.5	5 12 15.199	734	+10	257 15 30.7	60 57.7	− 3	9.993 3166	501	7 47	15 58
11	243.5	5 16 11.756	736	+13	258 16 28.4	60 58.9	− 7	9.993 2665	478	7 48	15 58
12	244.5	5 20 8.314	+738	+14	259 17 27.3	60 59.9	− 8	9.993 2187	452	7 49	15 58
13	245.5	5 24 4.871	740	+11	260 18 27.2	61 1.1	− 5	9.993 1735	430	7 50	15 58
14	246.5	5 28 1.429	743	+ 6	261 19 28.3	61 2.1	+ 1	9.993 1305	410	7 51	15 58
15	247.5	5 31 57.986	745	+ 1	262 20 30.4	61 3.1	+ 10	9.993 0895	389	7 51	15 59
16	248.5	5 35 54.544	747	− 4	263 21 33.5	61 4.1	+ 20	9.993 0506	370	7 52	15 59
17	249.5	5 39 51.101	749	− 7	264 22 37.6	61 5.0	+ 32	9.993 0136	354	7 53	15 59
18	250.5	5 43 47.659	+751	− 8	265 23 42.6	61 5.8	+ 45	9.992 9782	335	7 54	15 59
19	251.5	5 47 44.216	753	− 6	266 24 48.4	61 6.5	+ 59	9.992 9447	319	7 54	16 0
20	252.5	5 51 40.774	756	− 4	267 25 54.9	61 7.2	+ 73	9.992 9128	302	7 55	16 0
21	253.5	5 55 37.332	758	0	268 27 2.1	61 7.7	+ 85	9.992 8826	286	7 55	16 1
22	254.5	5 59 33.889	760	+ 4	269 28 9.8	61 8.2	+ 95	9.992 8540	269	7 56	16 1
23	255.5	6 3 30.447	763	+ 7	270 29 18.0	61 8.5	+103	9.992 8271	252	7 56	16 2
24	256.5	6 7 27.005	+765	+ 9	271 30 26.5	61 8.8	+109	9.992 8019	236	7 57	16 2
25	257.5	6 11 23.562	767	+ 9	272 31 35.3	61 9.0	+112	9.992 7783	217	7 57	16 3
26	258.5	6 15 20.120	769	+ 8	273 32 44.3	61 9.1	+113	9.992 7566	199	7 58	16 3
27	259.5	6 19 16.677	772	+ 5	274 33 53.4	61 9.2	+110	9.992 7367	179	7 58	16 4
28	260.5	6 23 13.235	774	+ 1	275 35 2.6	61 9.2	+105	9.992 7188	159	7 58	16 5
29	261.5	6 27 9.793	776	− 4	276 36 11.8	61 9.1	+ 98	9.992 7029	138	7 58	16 6
30	262.5	6 31 6.350	+778	−10	277 37 20.9	61 9.0	+ 87	9.992 6891	115	7 59	16 6
31	263.5	6 35 2.908	780	−14	278 38 29.9	61 8.8	+ 75	9.992 6776	92	7 59	16 7
32	264.5	6 38 59.465	+783	−16	279 39 38.7		+ 62	9.992 6684		7 59	16 8

0h Welt-Zeit	Mittleres Äquinoktium 1938.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1938												
Jan. 0	+0.152 182	+17 261	− 47	+3	−0.891 242	+ 2 636	+280	+3	−0.386 549	+1 144	+121	+2
1	0.169 443	17 209	52	+5	0.888 606	2 913	277	−3	0.385 405	1 264	120	−2
2	0.186 652	17 150	59	0	0.885 693	3 190	277	0	0.384 141	1 384	120	−1
3	0.203 802	17 086	64	+1	0.882 503	3 467	277	+3	0.382 757	1 504	120	+2
4	0.220 888	17 016	70	+1	0.879 036	3 741	274	−4	0.381 253	1 623	119	0
5	0.237 904	16 941	75	+4	0.875 295	4 014	273	−3	0.379 630	1 741	118	−2
6	+0.254 845	+16 861	− 80	+5	−0.871 281	+ 4 287	+273	+2	−0.377 889	+1 859	+118	+1
7	0.271 706	16 774	87	−1	0.866 994	4 556	269	−4	0.376 030	1 976	117	+1
8	0.288 480	16 683	91	+2	0.862 438	4 825	269	+2	0.374 054	2 093	117	+2
9	0.305 163	16 586	97	+1	0.857 613	5 092	267	+4	0.371 961	2 208	115	−4
10	0.321 749	16 485	101	+4	0.852 521	5 357	265	+2	0.369 753	2 322	114	−5
11	0.338 234	16 378	107	−1	0.847 164	5 619	262	−4	0.367 431	2 436	114	+1
12	+0.354 612	+16 267	−111	−1	−0.841 545	+ 5 879	+260	−4	−0.364 995	+2 550	+114	+4
13	0.370 879	16 150	117	−4	0.835 666	6 138	259	+1	0.362 445	2 661	111	−2
14	0.387 029	16 030	120	+2	0.829 528	6 394	256	0	0.359 784	2 773	112	+2
15	0.403 059	15 905	125	+1	0.823 134	6 649	255	+2	0.357 011	2 883	110	−1
16	0.418 964	15 775	130	−1	0.816 485	6 900	251	−3	0.354 128	2 993	110	0
17	0.434 739	15 641	134	+1	0.809 585	7 151	251	+3	0.351 135	3 101	108	−4
18	+0.450 380	+15 503	−138	+3	−0.802 434	+ 7 399	+248	+2	−0.348 034	+3 209	+108	−2
19	0.465 883	15 359	144	0	0.795 035	7 646	247	+4	0.344 825	3 316	107	−2
20	0.481 242	15 212	147	+5	0.787 389	7 889	243	−2	0.341 509	3 422	106	−2
21	0.496 454	15 059	153	+2	0.779 500	8 132	243	+4	0.338 087	3 527	105	−1
22	0.511 513	14 902	157	+4	0.771 368	8 372	240	+1	0.334 560	3 632	105	+2
23	0.526 415	14 740	162	+4	0.762 996	8 609	237	−3	0.330 928	3 734	102	−4
24	+0.541 155	+14 574	−166	+4	−0.754 387	+ 8 843	+234	−4	−0.327 194	+3 836	+102	+1
25	0.555 729	14 401	173	−3	0.745 544	9 076	233	+4	0.323 358	3 937	101	+4
26	0.570 130	14 226	175	+5	0.736 468	9 306	230	+5	0.319 421	4 037	100	+5
27	0.584 356	14 045	181	+2	0.727 162	9 532	226	+2	0.315 384	4 135	98	+3
28	0.598 401	13 860	185	+1	0.717 630	9 756	224	+5	0.311 249	4 232	97	+2
29	0.612 261	13 670	190	−2	0.707 874	9 977	221	+4	0.307 017	4 328	96	+1
30	+0.625 931	+13 475	−195	−3	−0.697 897	+10 194	+217	−1	−0.302 689	+4 421	+ 93	−4
31	0.639 406	13 277	198	+3	0.687 703	10 407	213	−3	0.298 268	4 514	93	+2
Febr. 1	0.652 683	13 074	203	+2	0.677 296	10 619	212	+4	0.293 754	4 606	92	+5
2	0.665 757	12 867	207	+1	0.666 677	10 825	206	−3	0.289 148	4 695	89	0
3	0.678 624	12 656	211	−1	0.655 852	11 028	203	−2	0.284 453	4 783	88	+1
4	0.691 280	12 440	216	−5	0.644 824	11 228	200	+1	0.279 670	4 869	86	+1
5	+0.703 720	+12 222	−218	−1	−0.633 596	+11 423	+195	−2	−0.274 801	+4 954	+ 85	+4
6	0.715 942	11 999	223	−5	0.622 173	11 614	191	−1	0.269 847	5 037	83	+3
7	0.727 941	11 773	226	−4	0.610 559	11 802	188	+4	0.264 810	5 118	81	+2
8	0.739 714	11 544	229	−1	0.598 757	11 986	184	+3	0.259 692	5 198	80	+3
9	0.751 258	+11 312	232	−1	0.586 771	+12 164	178	−4	0.254 494	+5 275	77	−2
10	+0.762 570		−236	−3	−0.574 607		+176	+2	−0.249 219		+ 77	+1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1938.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1938												
Febr. 10	+0.762 570	+11 076	−236	−3	−0.574 607	+12 340	+176	+2	−0.249 219	+5 352	+77	+1
11	0.773 646	10 839	237	+3	0.562 267	12 511	171	+2	0.243 867	5 426	74	−4
12	0.784 485	10 598	241	−1	0.549 756	12 679	168	+5	0.238 441	5 498	72	−5
13	0.795 083	10 354	244	−4	0.537 077	12 842	163	+2	0.232 943	5 570	72	0
14	0.805 437	10 108	246	−1	0.524 235	13 003	161	+5	0.227 373	5 639	69	−3
15	0.815 545	9 859	249	−1	0.511 232	13 158	155	−2	0.221 734	5 707	68	−1
16	+0.825 404	+ 9 608	−251	0	−0.498 074	+13 311	+153	+1	−0.216 027	+5 773	+66	0
17	0.835 012	9 353	255	−5	0.484 763	13 459	148	−3	0.210 254	5 838	65	+3
18	0.844 365	9 096	257	−3	0.471 304	13 604	145	−2	0.204 416	5 901	63	+1
19	0.853 461	8 836	260	−3	0.457 700	13 744	140	−3	0.198 515	5 962	61	−1
20	0.862 297	8 573	263	−3	0.443 956	13 882	138	+3	0.192 553	6 021	59	−3
21	0.870 870	8 308	265	+1	0.430 074	14 014	132	−4	0.186 532	6 079	58	−1
22	+0.879 178	+ 8 040	−268	+2	−0.416 060	+14 142	+128	−5	−0.180 453	+6 134	+55	−4
23	0.887 218	7 770	270	+2	0.401 918	14 266	124	−3	0.174 319	6 188	54	0
24	0.894 988	7 496	274	−3	0.387 652	14 386	120	0	0.168 131	6 240	52	+2
25	0.902 484	7 221	275	+2	0.373 266	14 501	115	−1	0.161 891	6 290	50	+2
26	0.909 705	6 944	277	+3	0.358 765	14 612	111	+1	0.155 601	6 338	48	+2
27	0.916 649	6 663	281	−4	0.344 153	14 718	106	0	0.149 263	6 384	46	0
28	+0.923 312	+ 6 382	−281	+1	−0.329 435	+14 819	+101	−1	−0.142 879	+6 427	+43	−3
März 1	0.929 694	6 097	285	−5	0.314 616	14 916	97	+3	0.136 452	6 470	43	+3
2	0.935 791	5 811	286	−2	0.299 700	15 008	92	+2	0.129 982	6 509	39	−4
3	0.941 602	5 524	287	+3	0.284 692	15 094	86	−3	0.123 473	6 546	37	−5
4	0.947 126	5 235	289	+3	0.269 598	15 176	82	+1	0.116 927	6 581	35	−2
5	0.952 361	4 945	290	+2	0.254 422	15 253	77	+2	0.110 346	6 615	34	+5
6	+0.957 306	+ 4 653	−292	−3	−0.239 169	+15 324	+ 71	−1	−0.103 731	+6 646	+31	+3
7	0.961 959	4 360	293	−3	0.223 845	15 391	67	+2	0.097 085	6 675	29	+2
8	0.966 319	4 068	292	+3	0.208 454	15 453	62	+2	0.090 410	6 701	26	−1
9	0.970 387	3 773	295	−3	0.193 001	15 510	57	0	0.083 709	6 726	25	+3
10	0.974 160	3 480	293	+3	0.177 491	15 561	51	−5	0.076 983	6 749	23	+4
11	0.977 640	3 184	296	−4	0.161 930	15 609	48	−1	0.070 234	6 769	20	+1
12	+0.980 824	+ 2 890	−294	+2	−0.146 321	+15 651	+ 42	−4	−0.063 465	+6 788	+19	+5
13	0.983 714	2 594	296	−3	0.130 670	15 689	38	−1	0.056 677	6 805	17	+5
14	0.986 308	2 299	295	0	0.114 981	15 723	34	+3	0.049 872	6 820	15	+1
15	0.988 607	2 003	296	−2	0.099 258	15 752	29	+3	0.043 052	6 832	12	−5
16	0.990 610	1 707	296	−2	0.083 506	15 777	25	+4	0.036 220	6 843	11	−3
17	0.992 317	1 410	297	−4	0.067 729	15 798	21	+4	0.029 377	6 852	9	−2
18	+0.993 727	+ 1 114	−296	+1	−0.051 931	+15 813	+ 15	−1	−0.022 525	+6 859	+ 7	−1
19	0.994 841	817	297	0	0.036 118	15 825	12	+4	0.015 666	6 864	5	0
20	0.995 658	520	297	−1	0.020 293	15 832	7	+4	0.008 802	6 868	+ 4	+3
21	0.996 178	+ 222	298	−3	−0.004 461	15 835	+ 3	+5	−0.001 934	6 868	0	−3
22	0.996 400	− 75	297	+2	+0.011 374	+15 833	− 2	+2	+0.004 934	+6 868	0	+2
23	+0.996 325		−297	+2	+0.027 207		− 8	−3	+0.011 802		− 4	−3

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1938.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1938												
März 23	+0.996 325	− 372	−297	+2	+0.027 207	+15 825	− 8	−3	+0.011 802	+6 864	− 4	−3
24	0.995 953	670	298	−2	0.043 032	15 815	10	+3	0.018 666	6 860	4	+2
25	0.995 283	967	297	−1	0.058 847	15 798	17	−4	0.025 526	6 852	8	−4
26	0.994 316	1 264	297	−1	0.074 645	15 777	21	−3	0.032 378	6 843	9	−1
27	0.993 052	1 561	297	−1	0.090 422	15 751	26	−3	0.039 221	6 832	11	0
28	0.991 491	1 857	296	+2	0.106 173	15 721	30	0	0.046 053	6 818	14	−2
29	+0.989 634	− 2 152	−295	+4	+0.121 894	+15 685	− 36	−2	+0.052 871	+6 803	−15	+2
30	0.987 482	2 447	295	0	0.137 579	15 645	40	0	0.059 674	6 785	18	0
31	0.985 035	2 741	294	−2	0.153 224	15 599	46	−2	0.066 459	6 765	20	+2
April 1	0.982 294	3 034	293	−4	0.168 823	15 549	50	+2	0.073 224	6 744	21	+5
2	0.979 260	3 326	292	−4	0.184 372	15 494	55	+2	0.079 968	6 719	25	−2
3	0.975 934	3 616	290	−1	0.199 866	15 433	61	−2	0.086 687	6 693	26	0
4	+0.972 318	− 3 904	−288	+1	+0.215 299	+15 369	− 64	+2	+0.093 380	+6 665	−28	+1
5	0.968 414	4 191	287	−2	0.230 668	15 298	71	−3	0.100 045	6 635	30	−1
6	0.964 223	4 476	285	−3	0.245 966	15 225	73	+4	0.106 680	6 602	33	−4
7	0.959 747	4 759	283	−1	0.261 191	15 146	79	−1	0.113 282	6 569	33	+1
8	0.954 988	5 039	280	+2	0.276 337	15 063	83	−3	0.119 851	6 532	37	−3
9	0.949 949	5 318	279	−2	0.291 400	14 975	88	−4	0.126 383	6 495	37	+4
10	+0.944 631	− 5 595	−277	−3	+0.306 375	+14 885	− 90	+3	+0.132 878	+6 456	−39	+5
11	0.939 036	5 869	274	0	0.321 260	14 789	96	−2	0.139 334	6 415	41	+2
12	0.933 167	6 142	273	−3	0.336 049	14 690	99	+1	0.145 749	6 372	43	−2
13	0.927 025	6 412	270	0	0.350 739	14 587	103	+3	0.152 121	6 327	45	−5
14	0.920 613	6 680	268	−1	0.365 326	14 481	106	+5	0.158 448	6 281	46	−3
15	0.913 933	6 947	267	−5	0.379 807	14 370	111	−1	0.164 729	6 233	48	−3
16	+0.906 986	− 7 211	−264	−3	+0.394 177	+14 255	−115	−3	+0.170 962	+6 183	−50	−2
17	0.899 775	7 474	263	−4	0.408 432	14 137	118	0	0.177 145	6 132	51	+2
18	0.892 301	7 733	259	+3	0.422 569	14 015	122	0	0.183 277	6 080	52	+4
19	0.884 568	7 991	258	−1	0.436 584	13 888	127	−2	0.189 357	6 024	56	−4
20	0.876 577	8 247	256	−5	0.450 472	13 759	129	+4	0.195 381	5 968	56	0
21	0.868 330	8 501	254	−5	0.464 231	13 625	134	0	0.201 349	5 909	59	−1
22	+0.859 829	− 8 751	−250	+1	+0.477 856	+13 486	−139	−4	+0.207 258	+5 850	−59	+5
23	0.851 078	9 000	249	−3	0.491 342	13 345	141	+3	0.213 108	5 788	62	+3
24	0.842 078	9 246	246	−2	0.504 687	13 199	146	+3	0.218 896	5 725	63	+4
25	0.832 832	9 489	243	−1	0.517 886	13 050	149	+5	0.224 621	5 660	65	+2
26	0.823 343	9 730	241	−3	0.530 936	12 896	154	+1	0.230 281	5 593	67	−1
27	0.813 613	9 967	237	0	0.543 832	12 739	157	+1	0.235 874	5 524	69	−1
28	+0.803 646	−10 202	−235	−4	+0.556 571	+12 577	−162	−4	+0.241 398	+5 455	−69	+3
29	0.793 444	10 434	232	−5	0.569 148	12 411	166	−4	0.246 853	5 382	73	−3
30	0.783 010	10 662	228	−1	0.581 559	12 243	168	+2	0.252 235	5 309	73	+2
Mai 1	0.772 348	10 886	224	+4	0.593 802	12 069	174	−5	0.257 544	5 234	75	+1
2	0.761 462	−11 107	221	+3	0.605 871	+11 893	176	−2	0.262 778	+5 157	77	0
3	+0.750 355		−216	+4	+0.617 764		−181	−5	+0.267 935		−77	+3

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0ʰ Welt-Zeit	Mittleres Äquinoktium 1938.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1938 Mai 3	+0.750 355	−11 323	−216	+4	+0.617 764	+11 712	−181	−5	+0.267 935	+5 080	− 77	+3
4	0.739 032	11 537	214	−3	0.629 476	11 529	183	+1	0.273 015	5 000	80	−3
5	0.727 495	11 746	209	−1	0.641 005	11 343	186	+4	0.278 015	4 919	81	−3
6	0.715 749	11 952	206	−2	0.652 348	11 154	189	+3	0.282 934	4 837	82	−1
7	0.703 797	12 152	200	+4	0.663 502	10 961	193	−2	0.287 771	4 754	83	+2
8	0.691 645	12 351	199	−3	0.674 463	10 767	194	+1	0.292 525	4 670	84	+2
9	+0.679 294	−12 544	−193	+4	+0.685 230	+10 569	−198	−4	+0.297 195	+4 584	− 86	−1
10	0.666 750	12 734	190	+3	0.695 799	10 368	201	−5	0.301 779	4 498	86	+1
11	0.654 016	12 920	186	+4	0.706 167	10 167	201	+4	0.306 277	4 410	88	−3
12	0.641 096	13 103	183	+2	0.716 334	9 961	206	−4	0.310 687	4 321	89	−4
13	0.627 993	13 281	178	+5	0.726 295	9 754	207	−1	0.315 008	4 231	90	−4
14	0.614 712	13 457	176	0	0.736 049	9 544	210	−3	0.319 239	4 140	91	−3
15	+0.601 255	−13 628	−171	+3	+0.745 593	+ 9 331	−213	−4	+0.323 379	+4 048	− 92	−2
16	0.587 627	13 796	168	+1	0.754 924	9 117	214	+2	0.327 427	3 955	93	−2
17	0.573 831	13 960	164	+2	0.764 041	8 900	217	0	0.331 382	3 860	95	−5
18	0.559 871	14 120	160	+2	0.772 941	8 680	220	−4	0.335 242	3 765	95	0
19	0.545 751	14 276	156	0	0.781 621	8 458	222	−2	0.339 007	3 669	96	+2
20	0.531 475	14 429	153	−5	0.790 079	8 234	224	−1	0.342 676	3 571	98	0
21	+0.517 046	−14 578	−149	−4	+0.798 313	+ 8 007	−227	−4	+0.346 247	+3 473	− 98	+3
22	0.502 468	14 722	144	+1	0.806 320	7 778	229	−4	0.349 720	3 374	99	+2
23	0.487 746	14 863	141	0	0.814 098	7 546	232	−4	0.353 094	3 272	102	−4
24	0.472 883	14 998	135	+4	0.821 644	7 313	233	+2	0.356 366	3 172	100	+4
25	0.457 885	15 131	133	−4	0.828 957	7 077	236	0	0.359 538	3 069	103	−2
26	0.442 754	15 259	128	−2	0.836 034	6 839	238	−1	0.362 607	2 965	104	−4
27	+0.427 495	−15 381	−122	+3	+0.842 873	+ 6 598	−241	−5	+0.365 572	+2 861	−104	0
28	0.412 114	15 500	119	−4	0.849 471	6 355	243	−4	0.368 433	2 756	105	0
29	0.396 614	15 614	114	−5	0.855 826	6 111	244	+1	0.371 189	2 649	107	−3
30	0.381 000	15 723	109	−2	0.861 937	5 864	247	−1	0.373 838	2 543	106	+3
31	0.365 277	15 826	103	+3	0.867 801	5 617	247	+4	0.376 381	2 436	107	+2
Juni 1	0.349 451	15 925	99	+2	0.873 418	5 367	250	−2	0.378 817	2 327	109	−5
2	+0.333 526	−16 018	− 93	+4	+0.878 785	+ 5 116	−251	−3	+0.381 144	+2 218	−109	−3
3	0.317 508	16 107	89	−1	0.883 901	4 864	252	−1	0.383 362	2 110	108	+4
4	0.301 401	16 192	85	−4	0.888 765	4 612	252	+3	0.385 472	2 000	110	0
5	0.285 209	16 270	78	+3	0.893 377	4 358	254	−1	0.387 472	1 891	109	+2
6	0.268 939	16 345	75	−1	0.897 735	4 104	254	−1	0.389 363	1 780	111	−4
7	0.252 594	16 415	70	0	0.901 839	3 848	256	−5	0.391 143	1 669	111	−2
8	+0.236 179	−16 480	− 65	+2	+0.905 687	+ 3 593	−255	0	+0.392 812	+1 559	−110	+4
9	0.219 699	16 541	61	+1	0.909 280	3 336	257	−3	0.394 371	1 448	111	+3
10	0.203 158	16 597	56	+1	0.912 616	3 079	257	0	0.395 819	1 336	112	0
11	0.186 561	16 649	52	−2	0.915 695	2 822	257	+3	0.397 155	1 225	111	+2
12	0.169 912	−16 697	48	−5	0.918 517	+ 2 563	259	−1	0.398 380	+1 112	113	−3
13	+0.153 215		− 43	−3	+0.921 080		−258	+3	+0.399 492		−112	+1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0ʰ Welt-Zeit	Mittleres Äquinoktium 1938.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1938												
Juni 13	+0.153 215	−16 740	− 43	−3	+0.921 080	+2 305	−258	+3	+0.399 492	+1 000	−112	+1
14	0.136 475	16 779	39	−1	0.923 385	2 045	260	−1	0.400 492	888	112	+2
15	0.119 696	16 812	33	+4	0.925 430	1 785	260	0	0.401 380	774	114	−2
16	0.102 884	16 843	31	−2	0.927 215	1 525	260	+2	0.402 154	662	112	+4
17	0.086 041	16 867	24	+4	0.928 740	1 264	261	+1	0.402 816	548	114	0
18	0.069 174	16 888	21	−2	0.930 004	1 002	262	0	0.403 364	435	113	+3
19	+0.052 286	−16 905	− 17	−3	+0.931 006	+ 741	−261	+5	+0.403 799	+ 321	−114	+1
20	0.035 381	16 916	11	+4	0.931 747	478	263	+1	0.404 120	207	114	+1
21	0.018 465	16 922	6	+5	0.932 225	+ 216	262	+4	0.404 327	+ 93	114	+1
22	+0.001 543	16 925	− 3	−1	0.932 441	− 47	263	0	0.404 420	− 21	114	+2
23	−0.015 382	16 922	+ 3	+2	0.932 394	311	264	−4	0.404 399	135	114	+1
24	0.032 304	16 914	8	+2	0.932 083	575	264	−2	0.404 264	250	115	−4
25	−0.049 218	−16 902	+ 12	−1	+0.931 508	− 838	−263	+4	+0.404 014	− 364	−114	−3
26	0.066 120	16 883	19	+4	0.930 670	1 102	264	+3	0.403 650	479	115	−5
27	0.083 003	16 861	22	−2	0.929 568	1 365	263	+5	0.403 171	593	114	−1
28	0.099 864	16 832	29	+4	0.928 203	1 628	263	+1	0.402 578	707	114	0
29	0.116 696	16 798	34	+3	0.926 575	1 891	263	−4	0.401 871	820	113	+2
30	0.133 494	16 760	38	−3	0.924 684	2 153	262	−4	0.401 051	934	114	−3
Juli 1	−0.150 254	−16 716	+ 44	−2	+0.922 531	−2 414	−261	−1	+0.400 117	−1 047	−113	−2
2	0.166 970	16 668	48	−2	0.920 117	2 673	259	+3	0.399 070	1 159	112	0
3	0.183 638	16 614	54	+4	0.917 444	2 932	259	−1	0.397 911	1 272	113	−3
4	0.200 252	16 556	58	+3	0.914 512	3 189	257	−1	0.396 639	1 383	111	+3
5	0.216 808	16 493	63	+2	0.911 323	3 446	257	−4	0.395 256	1 493	110	+5
6	0.233 301	16 427	66	−2	0.907 877	3 700	254	0	0.393 763	1 605	112	−3
7	−0.249 728	−16 355	+ 72	+4	+0.904 177	−3 954	−254	−4	+0.392 158	−1 714	−109	+4
8	0.266 083	16 279	76	+4	0.900 223	4 207	253	−4	0.390 444	1 824	110	+1
9	0.282 362	16 199	80	+2	0.896 016	4 457	250	+2	0.388 620	1 932	108	+4
10	0.298 561	16 115	84	+2	0.891 559	4 707	250	−2	0.386 688	2 041	109	−3
11	0.314 676	16 026	89	+5	0.886 852	4 956	249	−5	0.384 647	2 149	108	−3
12	0.330 702	15 933	93	+3	0.881 896	5 203	247	−1	0.382 498	2 256	107	−1
13	−0.346 635	−15 836	+ 97	0	+0.876 693	−5 448	−245	+2	+0.380 242	−2 363	−107	−1
14	0.362 471	15 735	101	−2	0.871 245	5 693	245	−2	0.377 879	2 469	106	+1
15	0.378 206	15 630	105	−2	0.865 552	5 935	242	+2	0.375 410	2 574	105	+2
16	0.393 836	15 520	110	+3	0.859 617	6 177	242	−3	0.372 836	2 679	105	−2
17	0.409 356	15 406	114	+4	0.853 440	6 418	241	−4	0.370 157	2 784	105	−5
18	0.424 762	15 287	119	+5	0.847 022	6 655	237	+4	0.367 373	2 887	103	0
19	−0.440 049	−15 165	+122	−3	+0.840 367	−6 893	−238	−4	+0.364 486	−2 990	−103	−2
20	0.455 214	15 039	126	−5	0.833 474	7 128	235	−1	0.361 496	3 093	103	−4
21	0.470 253	14 907	132	+1	0.826 346	7 363	235	−5	0.358 403	3 194	101	+3
22	0.485 160	14 772	135	−2	0.818 983	7 594	231	+1	0.355 209	3 294	100	+4
23	0.499 932	−14 631	141	+3	0.811 389	−7 825	231	−4	0.351 915	−3 395	101	−2
24	−0.514 563		+144	0	+0.803 564		−229	−4	+0.348 520		− 98	+2

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1938.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1938												
Juli 24	−0.514 563	−14 487	+144	0	+0.803 564	− 8 054	−229	−4	+0.348 520	−3 493	−98	+2
25	0.529 050	14 337	150	+5	0.795 510	8 280	226	+1	0.345 027	3 592	99	−4
26	0.543 387	14 183	154	+4	0.787 230	8 504	224	+3	0.341 435	3 689	97	0
27	0.557 570	14 024	159	+3	0.778 726	8 725	221	+4	0.337 746	3 784	95	+3
28	0.571 594	13 862	162	−3	0.770 001	8 944	219	0	0.333 962	3 879	95	−2
29	0.585 456	13 695	167	−1	0.761 057	9 160	216	−3	0.330 083	3 973	94	−5
30	−0.599 151	−13 523	+172	+2	+0.751 897	− 9 374	−214	−5	+0.326 110	−4 065	−92	−3
31	0.612 674	13 349	174	−4	0.742 523	9 583	209	+1	0.322 045	4 157	92	−5
Aug. 1	0.626 023	13 170	179	+1	0.732 940	9 791	208	−4	0.317 888	4 246	89	+3
2	0.639 193	12 987	183	+4	0.723 149	9 995	204	−1	0.313 642	4 334	88	+5
3	0.652 180	12 801	186	+2	0.713 154	10 196	201	+1	0.309 308	4 421	87	+2
4	0.664 981	12 612	189	−1	0.702 958	10 394	198	+3	0.304 887	4 508	87	−2
5	−0.677 593	−12 419	+193	0	+0.692 564	−10 589	−195	+5	+0.300 379	−4 592	−84	+4
6	0.690 012	12 223	196	−2	0.681 975	10 781	192	+5	0.295 787	4 675	83	+3
7	0.702 235	12 024	199	−4	0.671 194	10 970	189	+5	0.291 112	4 757	82	0
8	0.714 259	11 821	203	−2	0.660 224	11 156	186	+4	0.286 355	4 839	82	−4
9	0.726 080	11 616	205	−5	0.649 068	11 339	183	+3	0.281 516	4 917	78	+3
10	0.737 696	11 407	209	−1	0.637 729	11 519	180	0	0.276 599	4 996	79	−4
11	−0.749 103	−11 195	+212	+1	+0.626 210	−11 696	−177	−2	+0.271 603	−5 073	−77	−4
12	0.760 298	10 980	215	+2	0.614 514	11 871	175	−4	0.266 530	5 149	76	−3
13	0.771 278	10 762	218	+3	0.602 643	12 041	170	+4	0.261 381	5 223	74	+3
14	0.782 040	10 541	221	+4	0.590 602	12 209	168	+3	0.256 158	5 295	72	+5
15	0.792 581	10 316	225	+5	0.578 393	12 374	165	+3	0.250 863	5 367	72	−2
16	0.802 897	10 089	227	−1	0.566 019	12 535	161	+4	0.245 496	5 438	71	−5
17	−0.812 986	− 9 859	+230	−3	+0.553 484	−12 694	−159	−3	+0.240 058	−5 506	−68	−1
18	0.822 845	9 625	234	−2	0.540 790	12 850	156	−5	0.234 552	5 574	68	−5
19	0.832 470	9 389	236	−5	0.527 940	13 002	152	−1	0.228 978	5 640	66	−4
20	0.841 859	9 149	240	0	0.514 938	13 150	148	+2	0.223 338	5 704	64	−2
21	0.851 008	8 905	244	+4	0.501 788	13 295	145	−1	0.217 634	5 767	63	−3
22	0.859 913	8 659	246	−1	0.488 493	13 437	142	−5	0.211 867	5 828	61	−3
23	−0.868 572	− 8 410	+249	−4	+0.475 056	−13 575	−138	−3	+0.206 039	−5 888	−60	−5
24	0.876 982	8 158	252	−4	0.461 481	13 708	133	+3	0.200 151	5 946	58	−2
25	0.885 140	7 903	255	−1	0.447 773	13 837	129	+5	0.194 205	6 001	55	+4
26	0.893 043	7 645	258	+3	0.433 936	13 962	125	+3	0.188 204	6 055	54	0
27	0.900 688	7 384	261	+5	0.419 974	14 083	121	0	0.182 149	6 108	53	−4
28	0.908 072	7 122	262	−1	0.405 891	14 200	117	−1	0.176 041	6 158	50	−1
29	−0.915 194	− 6 858	+264	−3	+0.391 691	−14 311	−111	+5	+0.169 883	−6 207	−49	−1
30	0.922 052	6 591	267	0	0.377 380	14 419	108	+1	0.163 676	6 253	46	+3
31	0.928 643	6 323	268	−3	0.362 961	14 522	103	0	0.157 423	6 298	45	+1
Sept. 1	0.934 966	6 053	270	−3	0.348 439	14 622	100	−4	0.151 125	6 341	43	+2
2	0.941 019	− 5 782	271	−3	0.333 817	−14 716	94	+1	0.144 784	−6 382	41	+2
3	−0.946 801		+274	+3	+0.319 101		− 91	−2	+0.138 402		−39	+1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0ʰ Welt-Zeit	Mittleres Äquinoktium 1938.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1938												
Sept. 3	−0.946 801	−5 508	+274	+3	+0.319 101	−14 807	−91	−2	+0.138 402	−6 421	−39	+1
4	0.952 309	5 234	274	0	0.304 294	14 893	86	−1	0.131 981	6 459	38	−4
5	0.957 543	4 957	277	+3	0.289 401	14 976	83	−4	0.125 522	6 495	36	−5
6	0.962 500	4 681	276	−4	0.274 425	15 054	78	0	0.119 027	6 529	34	−4
7	0.967 181	4 401	280	+4	0.259 371	15 127	73	+4	0.112 498	6 561	32	−3
8	0.971 582	4 122	279	−1	0.244 244	15 198	71	−2	0.105 937	6 592	31	−4
9	−0.975 704	−3 840	+282	+4	+0.229 046	−15 263	−65	+3	+0.099 345	−6 620	−28	0
10	0.979 544	3 558	282	+2	0.213 783	15 325	62	+2	0.092 725	6 647	27	−2
11	0.983 102	3 274	284	+4	0.198 458	15 382	57	+5	0.086 078	6 672	25	−2
12	0.986 376	2 989	285	+1	0.183 076	15 436	54	+2	0.079 406	6 696	24	−3
13	0.989 365	2 704	285	−4	0.167 640	15 485	49	+4	0.072 710	6 717	21	+3
14	0.992 069	2 416	288	+2	0.152 155	15 530	45	+3	0.065 993	6 736	19	+3
15	−0.994 485	−2 128	+288	−1	+0.136 625	−15 572	−42	−1	+0.059 257	−6 755	−19	−2
16	0.996 613	1 838	290	+1	0.121 053	15 608	36	+4	0.052 502	6 770	15	+5
17	0.998 451	1 548	290	0	0.105 445	15 640	32	+3	0.045 732	6 784	14	+3
18	0.999 999	1 255	293	+5	0.089 805	15 669	29	−2	0.038 948	6 796	12	+2
19	1.001 254	963	292	0	0.074 136	15 691	22	+4	0.032 152	6 806	10	+1
20	1.002 217	668	295	+4	0.058 445	15 710	19	−3	0.025 346	6 814	8	+1
21	−1.002 885	− 375	+293	−4	+0.042 735	−15 724	−14	−4	+0.018 532	−6 819	− 5	+2
22	1.003 260	− 79	296	+4	0.027 011	15 733	9	−1	0.011 713	6 824	− 5	−4
23	1.003 339	+ 217	296	+5	+0.011 278	15 736	− 3	+4	+0.004 889	6 824	0	+4
24	1.003 122	513	296	+1	−0.004 458	15 735	+ 1	+3	−0.001 935	6 824	0	−2
25	1.002 609	808	295	−5	0.020 193	15 728	7	+5	0.008 759	6 821	+ 3	−2
26	1.001 801	1 104	296	−3	0.035 921	15 717	11	0	0.015 580	6 816	5	−4
27	−1.000 697	+1 399	+295	−4	−0.051 638	−15 701	+16	−2	−0.022 396	−6 810	+ 6	−5
28	0.999 298	1 694	295	−2	0.067 339	15 680	21	−3	0.029 206	6 800	10	+4
29	0.997 604	1 988	294	−2	0.083 019	15 654	26	−3	0.036 006	6 789	11	+4
30	0.995 616	2 282	294	+1	0.098 673	15 624	30	−5	0.042 795	6 775	14	+4
Okt. 1	0.993 334	2 575	293	0	0.114 297	15 589	35	−2	0.049 570	6 761	14	−3
2	0.990 759	2 867	292	−3	0.129 886	15 549	40	+1	0.056 331	6 744	17	0
3	−0.987 892	+3 158	+291	−4	−0.145 435	−15 504	+45	+2	−0.063 075	−6 724	+20	+4
4	0.984 734	3 448	290	−4	0.160 939	15 456	48	−5	0.069 799	6 704	20	−1
5	0.981 286	3 738	290	0	0.176 395	15 403	53	−5	0.076 503	6 680	24	+4
6	0.977 548	4 026	288	−4	0.191 798	15 345	58	−2	0.083 183	6 656	24	−1
7	0.973 522	4 312	286	−5	0.207 143	15 284	61	−4	0.089 839	6 629	27	+2
8	0.969 210	4 599	287	+4	0.222 427	15 217	67	+2	0.096 468	6 600	29	+1
9	−0.964 611	+4 884	+285	+3	−0.237 644	−15 147	+70	−1	−0.103 068	−6 571	+29	−4
10	0.959 727	5 168	284	+1	0.252 791	15 072	75	0	0.109 639	6 537	34	+4
11	0.954 559	5 450	282	−3	0.267 863	14 994	78	−3	0.116 176	6 504	33	−4
12	0.949 109	5 731	281	−2	0.282 857	14 910	84	+2	0.122 680	6 468	36	−1
13	0.943 378	+6 012	281	+4	0.297 767	−14 824	86	−4	0.129 148	−6 430	38	+2
14	−0.937 366		+280	+5	−0.312 591		+93	+3	−0.135 578		+40	+4

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1938.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1938												
Okt. 14	−0.937 366	+ 6 292	+280	+5	−0.312 591	−14 731	+ 93	+3	−0.135 578	−6 390	+ 40	+4
15	0.931 074	6 569	277	−2	0.327 322	14 636	95	−4	0.141 968	6 348	42	+4
16	0.924 505	6 846	277	+1	0.341 958	14 535	101	0	0.148 316	6 304	44	+2
17	0.917 659	7 122	276	+2	0.356 493	14 430	105	−1	0.154 620	6 259	45	−2
18	0.910 537	7 395	273	−5	0.370 923	14 320	110	+1	0.160 879	6 211	48	+2
19	0.903 142	7 667	272	−5	0.385 243	14 206	114	+1	0.167 090	6 161	50	+3
20	−0.895 475	+ 7 937	+270	−5	−0.399 449	−14 086	+120	+5	−0.173 251	−6 109	+ 52	+3
21	0.887 538	8 205	268	−5	0.413 535	13 962	124	+1	0.179 360	6 055	54	+2
22	0.879 333	8 470	265	−4	0.427 497	13 834	128	−4	0.185 415	5 999	56	−1
23	0.870 863	8 734	264	+3	0.441 331	13 701	133	−2	0.191 414	5 942	57	−5
24	0.862 129	8 995	261	+2	0.455 032	13 563	138	+2	0.197 356	5 882	60	0
25	0.853 134	9 252	257	−3	0.468 595	13 420	143	+3	0.203 238	5 820	62	+2
26	−0.843 882	+ 9 507	+255	0	−0.482 015	−13 274	+146	−3	−0.209 058	−5 756	+ 64	+1
27	0.834 375	9 759	252	+2	0.495 289	13 124	150	−4	0.214 814	5 692	64	−4
28	0.824 616	10 008	249	+4	0.508 413	12 968	156	+1	0.220 506	5 624	68	+3
29	0.814 608	10 254	246	+3	0.521 381	12 810	158	−5	0.226 130	5 555	69	+1
30	0.804 354	10 496	242	0	0.534 191	12 647	163	−3	0.231 685	5 485	70	−4
31	0.793 858	10 736	240	+3	0.546 838	12 481	166	−3	0.237 170	5 413	72	−5
Nov. 1	−0.783 122	+10 971	+235	−2	−0.559 319	−12 310	+171	+3	−0.242 583	−5 339	+ 74	−4
2	0.772 151	11 205	234	+4	0.571 629	12 136	174	+2	0.247 922	5 264	75	−5
3	0.760 946	11 433	228	−4	0.583 765	11 959	177	0	0.253 186	5 187	77	−4
4	0.749 513	11 659	226	+1	0.595 724	11 777	182	+5	0.258 373	5 109	78	−4
5	0.737 854	11 882	223	+5	0.607 501	11 593	184	0	0.263 482	5 029	80	0
6	0.725 972	12 101	219	+2	0.619 094	11 406	187	−2	0.268 511	4 947	82	+3
7	−0.713 871	+12 316	+215	0	−0.630 500	−11 214	+192	+3	−0.273 458	−4 865	+ 82	−2
8	0.701 555	12 529	213	+5	0.641 714	11 020	194	−2	0.278 323	4 780	85	+2
9	0.689 026	12 738	209	+3	0.652 734	10 823	197	−5	0.283 103	4 695	85	−3
10	0.676 288	12 943	205	0	0.663 557	10 623	200	−5	0.287 798	4 608	87	−1
11	0.663 345	13 146	203	+3	0.674 180	10 418	205	+1	0.292 406	4 519	89	+2
12	0.650 199	13 344	198	0	0.684 598	10 211	207	−3	0.296 925	4 429	90	+1
13	−0.636 855	+13 540	+196	+5	−0.694 809	−10 001	+210	−4	−0.301 354	−4 338	+ 91	0
14	0.623 315	13 732	192	+3	0.704 810	9 786	215	+2	0.305 692	4 244	94	+5
15	0.609 583	13 919	187	−2	0.714 596	9 569	217	0	0.309 936	4 150	94	0
16	0.595 664	14 103	184	+1	0.724 165	9 348	221	+3	0.314 086	4 054	96	+1
17	0.581 561	14 283	180	+3	0.733 513	9 123	225	+5	0.318 140	3 956	98	+1
18	0.567 278	14 459	176	+2	0.742 636	8 895	228	+1	0.322 096	3 858	98	−4
19	−0.552 819	+14 629	+170	−3	−0.751 531	− 8 665	+230	−5	−0.325 954	−3 757	+101	0
20	0.538 190	14 796	167	+3	0.760 196	8 431	234	−2	0.329 711	3 656	101	−4
21	0.523 394	14 958	162	+3	0.768 627	8 194	237	0	0.333 367	3 553	103	−2
22	0.508 436	15 115	157	−1	0.776 821	7 954	240	+3	0.336 920	3 449	104	−2
23	0.493 321	+15 267	152	−4	0.784 775	− 7 711	243	+5	0.340 369	−3 344	105	−3
24	−0.478 054		+147	−5	−0.792 486		+245	+1	−0.343 713		+106	−2

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0^h Welt-Zeit	Mittleres Äquinoktium 1938.0												
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1938												
Nov. 24	−0.478 054	+15 414	+147	−5	−0.792 486	−7 466	+245	+1	−0.343 713	−3 238	+106	−2
25	0.462 640	15 556	142	−5	0.799 952	7 219	247	−1	0.346 951	3 130	108	+1
26	0.447 084	15 693	137	−4	0.807 171	6 969	250	+3	0.350 081	3 023	107	−4
27	0.431 391	15 825	132	−1	0.814 140	6 717	252	+4	0.353 104	2 913	110	+4
28	0.415 566	15 953	128	+4	0.820 857	6 462	255	+5	0.356 017	2 803	110	+3
29	0.399 613	16 075	122	+1	0.827 319	6 207	255	−3	0.358 820	2 692	111	+3
30	−0.383 538	+16 191	+116	−3	−0.833 526	−5 949	+258	−2	−0.361 512	−2 580	+112	+1
Dez. 1	0.367 347	16 304	113	+3	0.839 475	5 690	259	−2	0.364 092	2 468	112	−4
2	0.351 043	16 410	106	−2	0.845 165	5 428	262	+3	0.366 560	2 355	113	−5
3	0.334 633	16 512	102	+2	0.850 593	5 166	262	−2	0.368 915	2 241	114	−4
4	0.318 121	16 609	97	+3	0.855 759	4 902	264	−1	0.371 156	2 127	114	−5
5	0.301 512	16 701	92	+2	0.860 661	4 637	265	−1	0.373 283	2 012	115	−3
6	−0.284 811	+16 788	+ 87	+2	−0.865 298	−4 371	+266	−1	−0.375 295	−1 896	+116	−1
7	0.268 023	16 870	82	+2	0.869 669	4 102	269	+4	0.377 191	1 780	116	−4
8	0.251 153	16 948	78	+4	0.873 771	3 834	268	−4	0.378 971	1 664	116	−5
9	0.234 205	17 021	73	+3	0.877 605	3 564	270	−4	0.380 635	1 546	118	+1
10	0.217 184	17 089	68	0	0.881 169	3 293	271	−3	0.382 181	1 428	118	0
11	0.200 095	17 151	62	−3	0.884 462	3 019	274	+3	0.383 609	1 310	118	−2
12	−0.182 944	+17 210	+ 59	+5	−0.887 481	−2 746	+273	−3	−0.384 919	−1 190	+120	+1
13	0.165 734	17 263	53	+4	0.890 227	2 470	276	+3	0.386 109	1 071	119	−5
14	0.148 471	17 311	48	+4	0.892 697	2 193	277	+3	0.387 180	951	120	−5
15	0.131 160	17 353	42	+1	0.894 890	1 916	277	−1	0.388 131	831	120	−3
16	0.113 807	17 390	37	+3	0.896 806	1 636	280	+4	0.388 962	709	122	+4
17	0.096 417	17 422	32	+4	0.898 442	1 357	279	−3	0.389 671	588	121	+1
18	−0.078 995	+17 447	+ 25	−2	−0.899 799	−1 077	+280	−3	−0.390 259	− 466	+122	+2
19	0.061 548	17 467	20	0	0.900 876	795	282	+2	0.390 725	344	122	+1
20	0.044 081	17 481	14	+1	0.901 671	514	281	−2	0.391 069	223	121	−2
21	0.026 600	17 490	9	+5	0.902 185	− 232	282	−1	0.391 292	− 100	123	+5
22	−0.009 110	17 493	+ 3	+4	0.902 417	+ 50	282	−2	0.391 392	+ 22	122	+4
23	+0.008 383	17 490	− 3	+2	0.902 367	332	282	−3	0.391 370	145	123	+5
24	+0.025 873	+17 481	− 9	−1	−0.902 035	+ 613	+281	−5	−0.391 225	+ 266	+121	−3
25	0.043 354	17 467	14	−2	0.901 422	895	282	+2	0.390 959	388	122	0
26	0.060 821	17 446	21	−5	0.900 527	1 176	281	+3	0.390 571	510	122	+3
27	0.078 267	17 421	25	+1	0.899 351	1 457	281	+5	0.390 061	632	122	+3
28	0.095 688	17 390	31	0	0.897 894	1 737	280	+2	0.389 429	753	121	−2
29	0.113 078	17 353	37	−2	0.896 157	2 015	278	−3	0.388 676	873	120	−4
30	+0.130 431	+17 311	− 42	−1	−0.894 142	+2 294	+279	+3	−0.387 803	+ 994	+121	+3
31	0.147 742	+17 263	48	−2	0.891 848	+2 571	277	+1	0.386 809	+1 115	121	+5
32	+0.165 005		− 52	+1	−0.889 277		+276	−1	−0.385 694		+119	−2

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

Frühlingsäquinoktium	21. März $6^h\ 43^m$	Herbstäquinoktium	23. Sept. $17^h\ 0^m$
Sommersolstitium	22. Juni 2 4	Wintersolstitium	22. Dez. 12 14

Erdnähe 3. Jan. 8^h
Erdferne 3. Juli 4

Tag		0h Welt-Zeit			
		Aberration	Parallaxe	Mittlere Länge $L_\odot$	Mittlere Anomalie $M_\odot$
1938		"	"	°	°
Jan.	−4	20.82	8.95	275.0607	353.19
	+6	20.82	8.95	284.9172	3.04
	16	20.81	8.95	294.7736	12.90
	26	20.79	8.94	304.6301	22.75
Febr.	5	20.76	8.93	314.4866	32.61
	15	20.72	8.91	324.3430	42.47
	25	20.68	8.89	334.1995	52.32
März	7	20.63	8.87	344.0560	62.18
	17	20.57	8.84	353.9125	72.03
	27	20.51	8.82	3.7689	81.89
April	6	20.45	8.79	13.6254	91.75
	16	20.40	8.77	23.4819	101.60
	26	20.34	8.74	33.3384	111.46
Mai	6	20.29	8.72	43.1948	121.31
	16	20.24	8.70	53.0513	131.17
	26	20.20	8.69	62.9078	141.03
Juni	5	20.17	8.67	72.7643	150.88
	15	20.15	8.66	82.6207	160.74
	25	20.14	8.66	92.4772	170.59
Juli	5	20.13	8.66	102.3337	180.45
	15	20.14	8.66	112.1901	190.31
	25	20.15	8.66	122.0466	200.16
Aug.	4	20.18	8.67	131.9031	210.02
	14	20.21	8.69	141.7596	219.87
	24	20.25	8.70	151.6160	229.73
Sept.	3	20.29	8.72	161.4725	239.59
	13	20.35	8.75	171.3290	249.44
	23	20.40	8.77	181.1855	259.30
Okt.	3	20.46	8.80	191.0419	269.15
	13	20.52	8.82	200.8984	279.01
	23	20.58	8.85	210.7549	288.87
Nov.	2	20.63	8.87	220.6114	298.72
	12	20.68	8.89	230.4678	308.58
	22	20.73	8.91	240.3243	318.43
Dez.	2	20.76	8.93	250.1808	328.29
	12	20.79	8.94	260.0372	338.15
	22	20.81	8.95	269.8937	348.00
	32	20.82	8.95	279.7502	357.86

Tag	0h Welt-Zeit									
	Scheinbare Rektaszenzion		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1938	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Jan. 0	17 14 52	50 53	−21 48.2	0 36.5	53 57.8	4.2	14 43.7	1.1	259.531	+1.233
1	18 5 45	50 24	−21 11.7	1 33.2	54 2.0	9.3	14 44.8	2.6	271.342	+2.245
2	18 56 9	49 31	−19 38.5	2 25.6	54 11.3	13.8	14 47.4	3.7	283.226	+3.163
3	19 45 40	48 29	−17 12.9	3 11.1	54 25.1	18.4	14 51.1	5.1	295.212	+3.948
4	20 34 9	47 33	−14 1.8	3 48.7	54 43.5	23.0	14 56.2	6.2	307.325	+4.562
5	21 21 42	46 59	−10 13.1	4 17.2	55 6.5	28.0	15 2.4	7.6	319.589	+4.975
6	22 8 41	47 1	− 5 55.9	4 36.2	55 34.5	33.3	15 10.0	9.1	332.030	+5.160
7	22 55 42	47 45	− 1 19.7	4 44.8	56 7.8	38.6	15 19.1	10.5	344.677	+5.099
8	23 43 27	49 21	+ 3 25.1	4 42.0	56 46.4	43.3	15 29.6	11.8	357.565	+4.782
9	0 32 48	51 48	+ 8 7.1	4 25.7	57 29.7	46.7	15 41.4	12.8	10.734	+4.208
10	1 24 36	54 59	+12 32.8	3 52.9	58 16.4	47.8	15 54.2	13.0	24.222	+3.391
11	2 19 35	58 33	+16 25.7	3 1.7	59 4.2	45.1	16 7.2	12.3	38.059	+2.358
12	3 18 8	61 51	+19 27.4	1 51.0	59 49.3	38.1	16 19.5	10.4	52.260	+1.156
13	4 19 59	64 3	+21 18.4	0 24.8	60 27.4	26.3	16 29.9	7.1	66.809	−0.148
14	5 24 2	64 30	+21 43.2	1 8.1	60 53.7	10.3	16 37.0	2.8	81.649	−1.465
15	6 28 32	63 3	+20 35.1	2 35.5	61 4.0	8.0	16 39.8	2.1	96.682	−2.695
16	7 31 35	60 18	+17 59.6	3 46.5	60 56.0	26.0	16 37.7	7.1	111.767	−3.738
17	8 31 53	57 1	+14 13.1	4 34.9	60 30.0	41.1	16 30.6	11.2	126.746	−4.515
18	9 28 54	53 55	+ 9 38.2	5 0.1	59 48.9	51.5	16 19.4	14.1	141.463	−4.976
19	10 22 49	51 27	+ 4 38.1	5 4.8	58 57.4	56.6	16 5.3	15.4	155.794	−5.109
20	11 14 16	49 47	− 0 26.7	4 53.2	58 0.8	56.4	15 49.9	15.4	169.665	−4.933
21	12 4 3	48 51	− 5 19.9	4 29.2	57 4.4	52.1	15 34.5	14.2	183.053	−4.489
22	12 52 54	48 38	− 9 49.1	3 55.6	56 12.3	44.8	15 20.3	12.2	195.979	−3.827
23	13 41 32	48 55	−13 44.7	3 14.6	55 27.5	35.7	15 8.1	9.7	208.503	−2.998
24	14 30 27	49 30	−16 59.3	2 27.3	54 51.8	25.8	14 58.4	7.0	220.704	−2.052
25	15 19 57	50 10	−19 26.6	1 35.1	54 26.0	15.8	14 51.4	4.3	232.671	−1.033
26	16 10 7	50 40	−21 1.7	0 39.2	54 10.2	6.3	14 47.1	1.8	244.494	+0.018
27	17 0 47	50 50	−21 40.9	0 18.4	54 3.9	2.0	14 45.3	0.6	256.261	+1.060
28	17 51 37	50 35	−21 22.5	1 15.6	54 5.9	9.3	14 45.9	2.5	268.046	+2.057
29	18 42 12	49 59	−20 6.9	2 9.6	54 15.2	15.3	14 48.4	4.2	279.913	+2.968
30	19 32 11	49 8	−17 57.3	2 58.4	54 30.5	19.8	14 52.6	5.4	291.911	+3.755
31	20 21 19	48 19	−14 58.9	3 39.4	54 50.3	23.2	14 58.0	6.3	304.075	+4.381
Febr. 1	21 9 38	47 43	−11 19.5	4 11.6	55 13.5	25.8	15 4.3	7.1	316.422	+4.811
2	21 57 21	47 32	− 7 7.9	4 33.4	55 39.3	27.8	15 11.4	7.5	328.961	+5.016
3	22 44 53	47 55	− 2 34.5	4 44.1	56 7.1	29.4	15 18.9	8.0	341.692	+4.977
4	23 32 48	48 59	+ 2 9.6	4 42.5	56 36.5	30.9	15 26.9	8.5	354.612	+4.684
5	0 21 47	50 47	+ 6 52.1	4 27.5	57 7.4	32.2	15 35.4	8.7	7.722	+4.141
6	1 12 34	53 12	+11 19.6	3 57.9	57 39.6	33.2	15 44.1	9.1	21.029	+3.367
7	2 5 46	56 4	+15 17.5	3 12.1	58 12.8	33.0	15 53.2	9.0	34.545	+2.393
8	3 1 50	58 54	+18 29.6	2 10.1	58 45.8	31.2	16 2.2	8.5	48.288	+1.264
9	4 0 44	61 8	+20 39.7	0 54.0	59 17.0	27.1	16 10.7	7.3	62.273	+0.041
10	5 1 52		+21 33.7		59 44.1		16 18.0		76.502	−1.205

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, + 50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1938	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Jan. 0	17 38 14	132	−21 38.7	+ 1.5	54.0	11 0.4	2.03	6 46	1.9	15 16	2.2
1	18 30 39	130	−20 32.7	+ 4.0	54.1	11 48.8	2.00	7 29	1.6	16 13	2.4
2	19 22 17	128	−18 28.2	+ 6.3	54.3	12 36.3	1.96	8 5	1.4	17 13	2.6
3	20 12 49	125	−15 31.5	+ 8.3	54.6	13 22.8	1.91	8 35	1.2	18 18	2.7
4	21 2 15	122	−11 51.1	+10.0	54.9	14 8.1	1.87	9 2	1.0	19 23	2.8
5	21 50 52	121	− 7 36.4	+11.2	55.4	14 52.7	1.85	9 25	0.9	20 30	2.8
6	22 39 14	121	− 2 57.7	+12.0	55.9	15 37.0	1.85	9 47	0.9	21 38	2.9
7	23 28 8	124	+ 1 54.2	+12.3	56.6	16 21.8	1.89	10 8	0.9	22 48	3.0
8	0 18 28	129	+ 6 47.5	+12.1	57.3	17 8.1	1.98	10 30	1.0	— —	—
9	1 11 16	136	+11 28.2	+11.2	58.1	17 56.8	2.10	10 54	1.1	0 0	3.0
10	2 7 24	145	+15 39.1	+ 9.6	58.9	18 48.9	2.25	11 22	1.3	1 13	3.1
11	3 7 30	155	+18 59.8	+ 7.0	59.7	19 44.9	2.42	11 56	1.6	2 29	3.1
12	4 11 26	164	+21 8.1	+ 3.6	60.4	20 44.7	2.55	12 40	2.0	3 44	3.1
13	5 18 5	168	+21 44.8	− 0.6	60.9	21 47.2	2.63	13 34	2.5	4 56	2.8
14	6 25 26	167	+20 40.5	− 4.8	61.1	22 50.5	2.62	14 41	3.0	5 59	2.4
15	7 31 15	161	+18 0.7	− 8.4	60.9	23 52.2	2.51	15 57	3.3	6 52	2.0
16	— — —	—	— —	—	—	— —	—	17 18	3.4	7 34	1.6
17	8 33 57	152	+14 4.1	−11.1	60.5	0 50.8	2.37	18 39	3.3	8 9	1.3
18	9 32 57	143	+ 9 16.7	−12.7	59.8	1 45.7	2.21	19 58	3.2	8 37	1.1
19	10 28 33	135	+ 4 4.7	−13.2	58.9	2 37.2	2.09	21 14	3.1	9 2	1.0
20	11 21 29	130	− 1 9.7	−12.9	57.9	3 26.1	2.00	22 27	3.0	9 25	1.0
21	12 12 41	127	− 6 9.3	−12.0	56.9	4 13.2	1.94	23 37	2.9	9 48	1.0
22	13 3 1	125	−10 41.1	−10.6	56.0	4 59.5	1.92	— —	—	10 12	1.0
23	13 53 14	126	−14 35.4	− 8.9	55.3	5 45.6	1.93	0 45	2.8	10 38	1.2
24	14 43 52	127	−17 44.3	− 6.8	54.7	6 32.2	1.95	1 51	2.6	11 8	1.3
25	15 35 11	129	−20 1.4	− 4.6	54.3	7 19.4	1.98	2 52	2.5	11 42	1.6
26	16 27 13	131	−21 21.4	− 2.1	54.1	8 7.4	2.01	3 50	2.3	12 23	1.9
27	17 19 42	131	−21 40.8	+ 0.5	54.1	8 55.8	2.02	4 41	2.0	13 11	2.1
28	18 12 11	131	−20 58.6	+ 3.0	54.1	9 44.2	2.01	5 26	1.8	14 4	2.4
29	19 4 14	129	−19 16.4	+ 5.5	54.4	10 32.2	1.98	6 5	1.5	15 4	2.6
30	19 55 28	127	−16 38.8	+ 7.6	54.7	11 19.3	1.94	6 38	1.3	16 8	2.7
31	20 45 46	125	−13 13.0	+ 9.5	55.0	12 5.5	1.91	7 6	1.1	17 14	2.8
Febr. 1	21 35 14	123	− 9 8.2	+10.9	55.5	12 51.0	1.88	7 31	1.0	18 21	2.8
2	22 24 16	122	− 4 35.0	+11.8	55.9	13 35.9	1.87	7 53	0.9	19 30	2.9
3	23 13 26	124	+ 0 14.8	+12.2	56.4	14 21.0	1.89	8 15	0.9	20 39	2.9
4	0 3 29	127	+ 5 8.5	+12.1	56.9	15 7.0	1.95	8 37	0.9	21 50	3.0
5	0 55 12	132	+ 9 52.0	+11.4	57.5	15 54.7	2.03	9 0	1.0	23 2	3.0
6	1 49 24	139	+14 9.7	+10.0	58.0	16 44.8	2.15	9 27	1.2	— —	—
7	2 46 40	147	+17 44.0	+ 7.8	58.6	17 38.0	2.28	9 58	1.5	0 16	3.1
8	3 47 11	155	+20 16.5	+ 4.8	59.2	18 34.4	2.41	10 37	1.8	1 29	3.0
9	4 50 26	161	+21 30.0	+ 1.2	59.7	19 33.5	2.50	11 25	2.2	2 40	2.8
10	5 55 11	162	+21 12.8	− 2.7	60.0	20 34.1	2.53	12 24	2.7	3 45	2.5

Tag	0h Welt-Zeit									
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1938	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Febr. 10	5 1 52	62 13	+21 33.7	0 30.6	59 44.1	19.7	16 18.0	5.4	76.502	−1.205
11	6 4 5	61 49	+21 3.1	1 55.5	60 3.8	9.6	16 23.4	2.6	90.953	−2.391
12	7 5 54	60 11	+19 7.6	3 11.0	60 13.4	3.2	16 26.0	0.8	105.572	−3.433
13	8 6 5	57 48	+15 56.6	4 9.7	60 10.2	16.9	16 25.2	4.6	120.272	−4.251
14	9 3 53	55 15	+11 46.9	4 47.9	59 53.3	29.9	16 20.6	8.2	134.935	−4.785
15	9 59 8	53 2	+ 6 59.0	5 4.8	59 23.4	40.4	16 12.4	11.0	149.431	−5.004
16	10 52 10	51 22	+ 1 54.2	5 2.7	58 43.0	47.3	16 1.4	12.9	163.641	−4.906
17	11 43 32	50 20	− 3 8.5	4 44.6	57 55.7	49.8	15 48.5	13.6	177.474	−4.519
18	12 33 52	49 51	− 7 53.1	4 14.0	57 5.9	48.3	15 34.9	13.1	190.883	−3.890
19	13 23 43	49 52	−12 7.1	3 33.9	56 17.6	43.2	15 21.8	11.8	203.863	−3.074
20	14 13 35	50 7	−15 41.0	2 46.5	55 34.4	35.5	15 10.0	9.7	216.450	−2.129
21	15 3 42	50 30	−18 27.5	1 54.1	54 58.9	26.2	15 0.3	7.1	228.707	−1.107
22	15 54 12	50 47	−20 21.6	0 58.3	54 32.7	15.9	14 53.2	4.3	240.716	−0.055
23	16 44 59	50 49	−21 19.9	0 1.0	54 16.8	5.4	14 48.9	1.5	252.570	+0.986
24	17 35 48	50 33	−21 20.9	0 55.9	54 11.4	4.6	14 47.4	1.2	264.361	+1.979
25	18 26 21	50 2	−20 25.0	1 50.4	54 16.0	13.6	14 48.6	3.8	276.180	+2.888
26	19 16 23	49 23	−18 34.6	2 40.8	54 29.6	21.2	14 52.4	5.7	288.106	+3.678
27	20 5 46	48 43	−15 53.8	3 24.9	54 50.8	26.9	14 58.1	7.4	300.205	+4.313
28	20 54 29	48 17	−12 28.9	4 1.4	55 17.7	30.8	15 5.5	8.4	312.526	+4.758
März 1	21 42 46	48 12	− 8 27.5	4 28.2	55 48.5	32.6	15 13.9	8.8	325.099	+4.984
2	22 30 58	48 37	− 3 59.3	4 43.9	56 21.1	32.4	15 22.7	8.9	337.929	+4.964
3	23 19 35	49 36	+ 0 44.6	4 46.6	56 53.5	30.6	15 31.6	8.3	351.006	+4.686
4	0 9 11	51 12	+ 5 31.2	4 34.8	57 24.1	27.9	15 39.9	7.6	4.305	+4.150
5	1 0 23	53 19	+10 6.0	4 7.4	57 52.0	24.4	15 47.5	6.7	17.791	+3.375
6	1 53 42	55 43	+14 13.4	3 23.4	58 16.4	20.9	15 54.2	5.6	31.434	+2.397
7	2 49 25	58 3	+17 36.8	2 24.0	58 37.3	17.3	15 59.8	4.8	45.208	+1.268
8	3 47 28	59 51	+20 0.8	1 11.8	58 54.6	13.6	16 4.6	3.7	59.098	+0.053
9	4 47 19	60 39	+21 12.6	0 8.1	59 8.2	9.6	16 8.3	2.6	73.094	−1.176
10	5 47 58	60 17	+21 4.5	1 28.5	59 17.8	4.7	16 10.9	1.3	87.190	−2.343
11	6 48 15	58 53	+19 36.0	2 42.0	59 22.5	1.2	16 12.2	0.4	101.373	−3.371
12	7 47 8	56 53	+16 54.0	3 42.4	59 21.3	8.3	16 11.8	2.2	115.615	−4.195
13	8 44 1	54 46	+13 11.6	4 26.2	59 13.0	16.2	16 9.6	4.4	129.869	−4.758
14	9 38 47	52 54	+ 8 45.4	4 51.7	58 56.8	24.2	16 5.2	6.6	144.067	−5.026
15	10 31 41	51 30	+ 3 53.7	4 59.2	58 32.6	31.4	15 58.6	8.6	158.129	−4.986
16	11 23 11	50 41	− 1 5.5	4 50.0	58 1.2	36.8	15 50.0	10.0	171.975	−4.652
17	12 13 52	50 21	− 5 55.5	4 26.5	57 24.4	39.7	15 40.0	10.8	185.536	−4.059
18	13 4 13	50 26	−10 22.0	3 50.8	56 44.7	39.7	15 29.2	10.8	198.766	−3.258
19	13 54 39	50 44	−14 12.8	3 5.9	56 5.0	36.8	15 18.4	10.1	211.649	−2.307
20	14 45 23	51 3	−17 18.7	2 14.0	55 28.2	31.2	15 8.3	8.5	224.201	−1.263
21	15 36 26	51 12	−19 32.7	1 18.2	54 57.0	23.5	14 59.8	6.4	236.462	−0.182
22	16 27 38	51 6	−20 50.9	0 20.5	54 33.5	14.2	14 53.4	3.8	248.496	+0.891
23	17 18 44		−21 11.4		54 19.3		14 49.6		260.381	+1.912

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, + 50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1938	h m s	s	° '	'	'	h m	m	h m	m	h m	m
Febr. 10	5 55 11	162	+21 12.8	— 2.7	60.0	20 34.1	2.53	12 24	2.7	3 45	2.5
11	6 59 43	160	+19 22.9	— 6.4	60.2	21 34.6	2.49	13 33	3.0	4 40	2.1
12	8 2 32	154	+16 10.0	— 9.5	60.2	22 33.3	2.40	14 49	3.3	5 26	1.8
13	9 2 41	147	+11 52.6	—11.7	59.9	23 29.3	2.28	16 9	3.3	6 4	1.4
14	— — —	—	— —	—	—	— —	—	17 29	3.3	6 35	1.2
15	9 59 59	140	+ 6 54.3	—12.9	59.4	0 22.6	2.16	18 47	3.2	7 2	1.1
16	10 54 49	135	+ 1 38.6	—13.2	58.7	1 13.3	2.08	20 2	3.1	7 26	1.0
17	11 47 51	131	— 3 33.5	—12.7	57.9	2 2.3	2.01	21 16	3.0	7 50	1.0
18	12 39 46	129	— 8 24.9	—11.5	57.0	2 50.1	1.98	22 26	2.9	8 14	1.0
19	13 31 15	129	—12 42.2	— 9.9	56.2	3 37.5	1.98	23 34	2.8	8 40	1.1
20	14 22 47	129	—16 15.4	— 7.9	55.5	4 25.0	1.98	— —	—	9 9	1.3
21	15 14 39	130	—18 56.9	— 5.6	54.9	5 12.8	2.00	0 39	2.6	9 42	1.5
22	16 6 55	131	—20 41.6	— 3.1	54.5	6 1.0	2.02	1 39	2.4	10 21	1.7
23	16 59 26	131	—21 26.0	— 0.6	54.2	6 49.4	2.02	2 33	2.1	11 5	2.0
24	17 51 54	131	—21 9.2	+ 2.0	54.2	7 37.8	2.01	3 21	1.9	11 56	2.3
25	18 44 0	130	—19 52.2	+ 4.4	54.3	8 25.8	1.99	4 2	1.6	12 54	2.5
26	19 35 26	128	—17 38.5	+ 6.7	54.6	9 13.2	1.96	4 37	1.4	13 55	2.6
27	20 26 8	126	—14 33.4	+ 8.7	55.0	9 59.8	1.93	5 7	1.2	15 0	2.8
28	21 16 11	125	—10 44.6	+10.3	55.5	10 45.8	1.90	5 33	1.0	16 7	2.8
März 1	22 5 54	124	— 6 21.4	+11.5	56.1	11 31.4	1.90	5 57	1.0	17 16	2.9
2	22 55 46	125	— 1 35.2	+12.2	56.6	12 17.3	1.92	6 20	1.0	18 26	3.0
3	23 46 25	128	+ 3 21.1	+12.4	57.2	13 3.8	1.97	6 43	1.0	19 38	3.0
4	0 38 32	133	+ 8 12.4	+11.8	57.7	13 51.9	2.04	7 6	1.0	20 51	3.1
5	1 32 46	139	+12 41.8	+10.5	58.1	14 42.0	2.14	7 32	1.2	22 5	3.1
6	2 29 35	145	+16 31.5	+ 8.5	58.5	15 34.7	2.25	8 2	1.4	23 19	3.0
7	3 29 6	152	+19 23.1	+ 5.7	58.8	16 30.2	2.36	8 39	1.7	— —	—
8	4 30 53	157	+21 0.8	+ 2.4	59.1	17 27.9	2.44	9 24	2.1	0 31	2.9
9	5 33 55	158	+21 13.6	— 1.3	59.3	18 26.8	2.46	10 18	2.5	1 36	2.6
10	6 36 50	156	+19 58.8	— 4.9	59.4	19 25.6	2.43	11 22	2.8	2 34	2.2
11	7 38 23	151	+17 22.7	— 8.0	59.4	20 23.1	2.35	12 34	3.1	3 22	1.8
12	8 37 45	145	+13 39.1	—10.5	59.2	21 18.3	2.25	13 49	3.2	4 1	1.5
13	9 34 43	140	+ 9 6.6	—12.1	59.0	22 11.2	2.16	15 6	3.2	4 34	1.3
14	10 29 35	135	+ 4 5.7	—12.8	58.6	23 2.0	2.08	16 23	3.2	5 2	1.1
15	11 22 52	132	— 1 3.7	—12.8	58.0	23 51.2	2.03	17 39	3.1	5 27	1.0
16	— — —	—	— —	—	—	— —	—	18 53	3.0	5 51	1.0
17	12 15 15	130	— 6 3.2	—12.0	57.4	0 39.5	2.00	20 5	3.0	6 15	1.0
18	13 7 17	130	—10 37.1	—10.7	56.7	1 27.5	2.00	21 15	2.9	6 41	1.1
19	13 59 25	131	—14 32.4	— 8.8	56.0	2 15.5	2.01	22 22	2.7	7 9	1.2
20	14 51 53	132	—17 38.8	— 6.6	55.4	3 3.9	2.02	23 24	2.5	7 40	1.4
21	15 44 42	132	—19 49.2	— 4.2	54.9	3 52.6	2.04	— —	—	8 17	1.7
22	16 37 39	132	—20 59.4	— 1.6	54.5	4 41.5	2.03	0 22	2.3	9 0	1.9
23	17 30 24	131	—21 8.0	+ 0.9	54.3	5 30.2	2.02	1 13	2.0	9 49	2.1

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1938	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
März 23	17 18 44	50 40	−21 11.4	0 36.5	54 19.3	4.1	14 49.6	1.2	260.381	+1.912
24	18 9 24	50 0	−20 34.9	1 31.1	54 15.2	6.4	14 48.4	1.8	272.202	+2.847
25	18 59 24	49 15	−19 3.8	2 21.6	54 21.6	16.6	14 50.2	4.5	284.048	+3.661
26	19 48 39	48 33	−16 42.2	3 6.9	54 38.2	25.8	14 54.7	7.0	296.008	+4.323
27	20 37 12	48 8	−13 35.3	3 45.6	55 4.0	33.5	15 1.7	9.1	308.159	+4.803
28	21 25 20	48 8	− 9 49.7	4 16.6	55 37.5	38.8	15 10.8	10.6	320.568	+5.068
29	22 13 28	48 39	− 5 33.1	4 38.0	56 16.3	41.5	15 21.4	11.3	333.281	+5.094
30	23 2 7	49 48	− 0 55.1	4 47.4	56 57.8	40.9	15 32.7	11.1	346.322	+4.859
31	23 51 55	51 33	+ 3 52.3	4 42.5	57 38.7	37.4	15 43.8	10.3	359.687	+4.356
April 1	0 43 28	53 50	+ 8 34.8	4 20.8	58 16.1	31.0	15 54.1	8.4	13.346	+3.594
2	1 37 18	56 25	+12 55.6	3 40.9	58 47.1	23.0	16 2.5	6.3	27.247	+2.607
3	2 33 43	58 49	+16 36.5	2 43.1	59 10.1	14.0	16 8.8	3.8	41.328	+1.446
4	3 32 32	60 35	+19 19.6	1 30.7	59 24.1	5.4	16 12.6	1.5	55.519	+0.185
5	4 33 7	61 12	+20 50.3	0 10.0	59 29.5	2.3	16 14.1	0.7	69.760	−1.095
6	5 34 19	60 31	+21 0.3	1 11.0	59 27.2	8.5	16 13.4	2.3	84.002	−2.308
7	6 34 50	58 48	+19 49.3	2 24.4	59 18.7	13.5	16 11.1	3.6	98.204	−3.376
8	7 33 38	56 29	+17 24.9	3 24.8	59 5.2	17.2	16 7.5	4.7	112.339	−4.233
9	8 30 7	54 8	+14 0.1	4 9.6	58 48.0	20.5	16 2.8	5.6	126.382	−4.831
10	9 24 15	52 10	+ 9 50.5	4 37.6	58 27.5	23.5	15 57.2	6.4	140.308	−5.138
11	10 16 25	50 44	+ 5 12.9	4 49.6	58 4.0	26.1	15 50.8	7.1	154.089	−5.144
12	11 7 9	49 59	+ 0 23.3	4 46.6	57 37.9	28.7	15 43.7	7.9	167.694	−4.860
13	11 57 8	49 47	− 4 23.3	4 29.7	57 9.2	30.5	15 35.8	8.3	181.091	−4.311
14	12 46 55	50 3	− 8 53.0	4 0.4	56 38.7	31.4	15 27.5	8.5	194.251	−3.542
15	13 36 58	50 35	−12 53.4	3 20.2	56 7.3	30.8	15 19.0	8.4	207.158	−2.602
16	14 27 33	51 8	−16 13.6	2 31.5	55 36.5	28.6	15 10.6	7.8	219.805	−1.550
17	15 18 41	51 28	−18 45.1	1 36.9	55 7.9	24.3	15 2.8	6.6	232.203	−0.442
18	16 10 9	51 26	−20 22.0	0 39.3	54 43.6	18.4	14 56.2	5.0	244.381	+0.670
19	17 1 35	51 0	−21 1.3	0 18.4	54 25.2	10.8	14 51.2	3.0	256.382	+1.737
20	17 52 35	50 12	−20 42.9	1 13.5	54 14.4	1.8	14 48.2	0.5	268.264	+2.719
21	18 42 47	49 13	−19 29.4	2 4.4	54 12.6	8.0	14 47.7	2.2	280.095	+3.582
22	19 32 0	48 16	−17 25.0	2 49.8	54 20.6	18.3	14 49.9	5.0	291.952	+4.293
23	20 20 16	47 36	−14 35.2	3 29.1	54 38.9	28.2	14 54.9	7.7	303.917	+4.825
24	21 7 52	47 22	−11 6.1	4 1.4	55 7.1	37.3	15 2.6	10.2	316.069	+5.151
25	21 55 14	47 45	− 7 4.7	4 26.0	55 44.4	44.6	15 12.8	12.1	328.485	+5.246
26	22 42 59	48 51	− 2 38.7	4 40.9	56 29.0	49.2	15 24.9	13.4	341.228	+5.090
27	23 31 50	50 40	+ 2 2.2	4 43.7	57 18.2	50.1	15 38.3	13.7	354.341	+4.667
28	0 22 30	53 12	+ 6 45.9	4 31.2	58 8.3	46.9	15 52.0	12.7	7.846	+3.977
29	1 15 42	56 14	+11 17.1	4 0.0	58 55.2	39.4	16 4.7	10.8	21.728	+3.036
30	2 11 56	59 17	+15 17.1	3 8.7	59 34.6	28.2	16 15.5	7.6	35.943	+1.886
Mai 1	3 11 13	61 46	+18 25.8	1 58.6	60 2.8	14.6	16 23.1	4.0	50.414	+0.595
2	4 12 59	62 58	+20 24.4	0 35.7	60 17.4	0.5	16 27.1	0.2	65.042	−0.751
3	5 15 57		+21 0.1		60 17.9		16 27.3		79.722	−2.052

Tag	Obere Kulmination in Greenwich							0^h Länge, + 50° Breite			
	AR.	Änderung für 1^h westl. Länge	Dekl.	Änderung für 1^h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1^h westl. Länge	Aufgang	Änderung für 1^h westl. Länge	Untergang	Änderung für 1^h westl. Länge
1938	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
März 23	17 30 24	131	−21 8.0	+ 0.9	54.3	5 30.2	2.02	1 13	2.0	9 49	2.1
24	18 22 36	130	−20 16.1	+ 3.4	54.3	6 18.3	1.99	1 56	1.7	10 43	2.4
25	19 14 2	128	−18 27.0	+ 5.7	54.4	7 5.7	1.96	2 34	1.5	11 42	2.6
26	20 4 38	126	−15 45.6	+ 7.7	54.8	7 52.2	1.92	3 6	1.3	12 46	2.7
27	20 54 33	124	−12 18.2	+ 9.5	55.3	8 38.1	1.90	3 34	1.1	13 51	2.8
28	21 44 9	124	− 8 12.4	+10.9	55.9	9 23.6	1.90	3 59	1.0	14 58	2.9
29	22 33 57	125	− 3 37.4	+11.9	56.6	10 9.3	1.92	4 22	1.0	16 8	2.9
30	23 24 37	128	+ 1 15.4	+12.4	57.3	10 55.9	1.97	4 45	1.0	17 19	3.0
31	0 16 52	133	+ 6 12.0	+12.2	58.0	11 44.1	2.05	5 9	1.0	18 33	3.1
April 1	1 11 22	140	+10 55.3	+11.3	58.6	12 34.5	2.15	5 34	1.1	19 48	3.1
2	2 8 38	147	+15 5.6	+ 9.5	59.0	13 27.7	2.28	6 4	1.4	21 4	3.1
3	3 8 44	154	+18 22.3	+ 6.8	59.3	14 23.7	2.38	6 39	1.6	22 19	3.0
4	4 11 11	158	+20 26.7	+ 3.5	59.5	15 22.1	2.47	7 22	2.0	23 28	2.7
5	5 14 51	159	+21 6.0	− 0.2	59.5	16 21.6	2.48	8 14	2.4	— —	—
6	6 18 12	157	+20 16.8	− 3.8	59.4	17 20.9	2.44	9 16	2.7	0 29	2.3
7	7 19 53	151	+18 5.2	− 7.0	59.1	18 18.4	2.35	10 25	3.0	1 19	1.9
8	8 19 4	145	+14 44.9	− 9.5	58.9	19 13.5	2.24	11 39	3.1	2 1	1.6
9	9 15 36	138	+10 33.4	−11.3	58.5	20 6.0	2.13	12 54	3.1	2 35	1.3
10	10 9 51	133	+ 5 49.4	−12.3	58.1	20 56.1	2.05	14 9	3.1	3 4	1.1
11	11 2 26	130	+ 0 50.6	−12.5	57.7	21 44.6	2.00	15 23	3.1	3 30	1.0
12	11 54 5	129	− 4 6.2	−12.1	57.2	22 32.2	1.98	16 36	3.0	3 54	1.0
13	12 45 31	129	− 8 45.8	−11.1	56.7	23 19.6	1.98	17 47	2.9	4 18	1.0
14	— — —	—	— —	—	—	— —	—	18 57	2.9	4 42	1.1
15	13 37 13	130	−12 54.5	− 9.5	56.1	0 7.2	2.00	20 5	2.8	5 9	1.2
16	14 29 31	132	−16 20.4	− 7.5	55.6	0 55.4	2.03	21 10	2.6	5 39	1.4
17	15 22 24	133	−18 54.0	− 5.2	55.1	1 44.2	2.04	22 10	2.4	6 14	1.6
18	16 15 38	133	−20 28.9	− 2.7	54.7	2 33.4	2.05	23 4	2.1	6 54	1.8
19	17 8 48	132	−21 2.1	− 0.1	54.4	3 22.5	2.03	23 51	1.8	7 41	2.1
20	18 1 24	130	−20 34.0	+ 2.4	54.2	4 11.0	2.00	— —	—	8 34	2.3
21	18 53 4	128	−19 7.6	+ 4.7	54.2	4 58.6	1.96	0 30	1.5	9 31	2.5
22	19 43 38	125	−16 48.2	+ 6.8	54.4	5 45.1	1.92	1 4	1.3	10 32	2.6
23	20 33 14	123	−13 42.1	+ 8.6	54.8	6 30.6	1.88	1 33	1.1	11 36	2.7
24	21 22 12	122	− 9 56.2	+10.1	55.3	7 15.5	1.87	1 59	1.0	12 41	2.8
25	22 11 6	123	− 5 38.2	+11.3	56.0	8 0.4	1.88	2 23	1.0	13 48	2.9
26	23 0 40	125	− 0 57.3	+12.0	56.8	8 45.9	1.92	2 46	1.0	14 58	3.0
27	23 51 44	130	+ 3 55.5	+12.3	57.6	9 32.9	2.00	3 9	1.0	16 10	3.0
28	0 45 9	137	+ 8 45.7	+11.8	58.5	10 22.2	2.12	3 33	1.1	17 24	3.2
29	1 41 39	146	+13 14.6	+10.5	59.2	11 14.6	2.25	4 1	1.3	18 42	3.2
30	2 41 39	154	+17 0.5	+ 8.2	59.8	12 10.5	2.40	4 34	1.5	19 59	3.1
Mai 1	3 44 51	161	+19 40.5	+ 5.0	60.2	13 9.6	2.52	5 15	1.9	21 12	2.9
2	4 50 9	164	+20 56.0	+ 1.2	60.3	14 10.8	2.56	6 5	2.3	22 18	2.6
3	5 55 45	163	+20 37.9	− 2.7	60.2	15 12.3	2.54	7 5	2.7	23 15	2.1

Tag	0h Welt-Zeit									
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1938	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Mai 3	5 15 57	62 34	+21 0.1	0 50.5	60 17.9	12.3	16 27.3	3.4	79.722	−2.052
4	6 18 31	60 41	+20 9.6	2 9.7	60 5.6	22.5	16 23.9	6.1	94.352	−3.215
5	7 19 12	57 56	+17 59.9	3 14.7	59 43.1	29.5	16 17.8	8.1	108.846	−4.161
6	8 17 8	55 1	+14 45.2	4 1.9	59 13.6	33.6	16 9.7	9.1	123.138	−4.835
7	9 12 9	52 26	+10 43.3	4 31.4	58 40.0	35.0	16 0.6	9.6	137.190	−5.206
8	10 4 35	50 34	+ 6 11.9	4 44.7	58 5.0	34.8	15 51.0	9.4	150.979	−5.269
9	10 55 9	49 25	+ 1 27.2	4 43.7	57 30.2	33.5	15 41.6	9.2	164.502	−5.037
10	11 44 34	49 1	− 3 16.5	4 29.9	56 56.7	31.7	15 32.4	8.6	177.764	−4.538
11	12 33 35	49 13	− 7 46.4	4 4.7	56 25.0	29.6	15 23.8	8.0	190.776	−3.813
12	13 22 48	49 49	−11 51.1	3 29.0	55 55.4	27.3	15 15.8	7.5	203.555	−2.909
13	14 12 37	50 34	−15 20.1	2 44.4	55 28.1	24.7	15 8.3	6.7	216.117	−1.878
14	15 3 11	51 11	−18 4.5	1 52.6	55 3.4	21.6	15 1.6	5.9	228.480	−0.773
15	15 54 22	51 27	−19 57.1	0 56.4	54 41.8	17.5	14 55.7	4.8	240.669	+0.352
16	16 45 49	51 14	−20 53.5	0 1.4	54 24.3	12.5	14 50.9	3.4	252.709	+1.448
17	17 37 3	50 31	−20 52.1	0 57.5	54 11.8	6.2	14 47.5	1.7	264.636	+2.471
18	18 27 34	49 28	−19 54.6	1 49.4	54 5.6	1.1	14 45.8	0.3	276.489	+3.380
19	19 17 2	48 18	−18 5.2	2 35.7	54 6.7	9.6	14 46.1	2.6	288.320	+4.143
20	20 5 20	47 17	−15 29.5	3 15.3	54 16.3	18.9	14 48.7	5.2	300.186	+4.731
21	20 52 37	46 40	−12 14.2	3 48.0	54 35.2	28.5	14 53.9	7.7	312.152	+5.119
22	21 39 17	46 38	− 8 26.2	4 13.2	55 3.7	37.9	15 1.6	10.4	324.289	+5.286
23	22 25 55	47 19	− 4 13.0	4 30.3	55 41.6	46.3	15 12.0	12.6	336.670	+5.215
24	23 13 14	48 49	+ 0 17.3	4 37.9	56 27.9	52.6	15 24.6	14.3	349.363	+4.891
25	0 2 3	51 10	+ 4 55.2	4 32.9	57 20.5	55.8	15 38.9	15.2	2.431	+4.309
26	0 53 13	54 18	+ 9 28.1	4 12.2	58 16.3	54.7	15 54.1	14.9	15.916	+3.474
27	1 47 31	57 51	+13 40.3	3 32.3	59 11.0	48.5	16 9.0	13.2	29.834	+2.412
28	2 45 22	61 17	+17 12.6	2 31.4	59 59.5	37.0	16 22.2	10.1	44.165	+1.169
29	3 46 39	63 46	+19 44.0	1 12.1	60 36.5	21.3	16 32.3	5.8	58.847	−0.179
30	4 50 25	64 34	+20 56.1	0 17.5	60 57.8	3.5	16 38.1	1.0	73.778	−1.537
31	5 54 59	63 28	+20 38.6	1 45.5	61 1.3	14.2	16 39.1	3.9	88.824	−2.798
Juni 1	6 58 27	60 52	+18 53.1	3 0.8	60 47.1	29.0	16 35.2	7.9	103.840	−3.862
2	7 59 19	57 36	+15 52.3	3 56.7	60 18.1	39.8	16 27.3	10.8	118.687	−4.652
3	8 56 55	54 26	+11 55.6	4 31.6	59 38.3	45.8	16 16.5	12.5	133.252	−5.126
4	9 51 21	51 51	+ 7 24.0	4 47.6	58 52.5	47.7	16 4.0	13.0	147.464	−5.272
5	10 43 12	50 4	+ 2 36.4	4 47.5	58 4.8	46.3	15 51.0	12.6	161.289	−5.105
6	11 33 16	49 7	− 2 11.1	4 34.4	57 18.5	42.6	15 38.4	11.6	174.731	−4.660
7	12 22 23	48 54	− 6 45.5	4 10.4	56 35.9	37.7	15 26.8	10.3	187.816	−3.982
8	13 11 17	49 14	−10 55.9	3 36.8	55 58.2	32.4	15 16.5	8.8	200.588	−3.120
9	14 0 31	49 53	−14 32.7	2 54.8	55 25.8	27.0	15 7.7	7.4	213.095	−2.126
10	14 50 24	50 37	−17 27.5	2 5.7	54 58.8	21.9	15 0.3	6.0	225.389	−1.050
11	15 41 1	51 6	−19 33.2	1 11.5	54 36.9	16.9	14 54.3	4.6	237.515	+0.059
12	16 32 7	51 10	−20 44.7	0 14.6	54 20.0	12.1	14 49.7	3.2	249.515	+1.151
13	17 23 17		−20 59.3		54 7.9		14 46.5		261.426	+2.184

Tag	Obere Kulmination in Greenwich							0h Länge, + 50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1938	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Mai 3	5 55 45	163	+20 37.9	− 2.7	60.2	15 12.3	2.54	7 5	2.7	23 15	2.1
4	6 59 46	157	+18 50.0	− 6.2	59.9	16 12.2	2.44	8 14	3.0	— —	—
5	8 0 55	149	+15 46.4	− 9.0	59.4	17 9.3	2.31	9 29	3.1	0 0	1.7
6	8 58 46	141	+11 46.7	−10.9	58.8	18 3.0	2.17	10 45	3.1	0 37	1.4
7	9 53 37	134	+ 7 11.2	−12.0	58.2	18 53.8	2.07	12 0	3.1	1 8	1.2
8	10 46 12	129	+ 2 18.5	−12.3	57.6	19 42.3	1.99	13 14	3.0	1 34	1.1
9	11 37 23	127	− 2 35.5	−12.1	57.0	20 29.4	1.95	14 25	3.0	1 59	1.0
10	12 28 0	126	− 7 16.7	−11.3	56.5	21 16.0	1.94	15 36	2.9	2 22	1.0
11	13 18 47	128	−11 32.3	−10.0	56.0	22 2.7	1.95	16 45	2.9	2 46	1.0
12	14 10 11	130	−15 10.9	− 8.2	55.5	22 50.0	1.99	17 53	2.8	3 11	1.1
13	15 2 25	132	−18 2.4	− 6.0	55.1	23 38.2	2.02	18 58	2.6	3 40	1.3
14	— — —	—	— —	—	—	— —	—	20 0	2.5	4 12	1.5
15	15 55 20	133	−19 58.7	− 3.6	54.7	0 27.0	2.05	20 56	2.2	4 51	1.7
16	16 48 33	133	−20 54.8	− 1.0	54.4	1 16.1	2.04	21 46	1.9	5 35	2.0
17	17 41 28	131	−20 49.3	+ 1.5	54.2	2 5.0	2.02	22 28	1.6	6 26	2.2
18	18 33 34	129	−19 44.1	+ 3.9	54.1	2 53.0	1.98	23 4	1.4	7 21	2.4
19	19 24 29	126	−17 44.2	+ 6.0	54.1	3 39.9	1.93	23 34	1.2	8 21	2.5
20	20 14 7	123	−14 56.2	+ 7.9	54.3	4 25.4	1.88	— —	—	9 23	2.6
21	21 2 42	121	−11 27.6	+ 9.4	54.7	5 9.9	1.84	0 1	1.1	10 27	2.7
22	21 50 44	120	− 7 26.1	+10.6	55.2	5 53.9	1.83	0 25	1.0	11 32	2.8
23	22 38 54	121	− 2 59.6	+11.5	55.9	6 38.0	1.85	0 48	0.9	12 39	2.8
24	23 28 3	125	+ 1 42.6	+11.9	56.7	7 23.1	1.91	1 10	0.9	13 48	2.9
25	0 19 10	131	+ 6 29.3	+11.9	57.7	8 10.1	2.02	1 33	1.0	15 0	3.1
26	1 13 11	139	+11 6.1	+11.1	58.6	9 0.1	2.15	1 59	1.2	16 15	3.2
27	2 10 55	149	+15 13.9	+ 9.4	59.5	9 53.7	2.32	2 29	1.4	17 32	3.2
28	3 12 42	159	+18 29.8	+ 6.7	60.3	10 51.4	2.48	3 5	1.7	18 48	3.1
29	4 17 59	167	+20 30.4	+ 3.2	60.8	11 52.6	2.60	3 51	2.1	20 0	2.8
30	5 25 13	169	+20 58.0	− 0.9	61.0	12 55.7	2.64	4 48	2.6	21 2	2.4
31	6 32 11	165	+19 47.3	− 4.9	60.9	13 58.5	2.58	5 55	3.0	21 54	2.0
Juni 1	7 36 49	157	+17 7.9	− 8.2	60.5	14 59.1	2.45	7 10	3.2	22 36	1.6
2	8 37 56	148	+13 20.1	−10.6	59.9	15 56.1	2.30	8 28	3.3	23 10	1.3
3	9 35 23	139	+ 8 47.7	−12.0	59.1	16 49.4	2.15	9 46	3.2	23 38	1.1
4	10 29 43	133	+ 3 53.0	−12.5	58.3	17 39.7	2.04	11 2	3.1	— —	—
5	11 21 50	128	− 1 5.5	−12.3	57.5	18 27.7	1.97	12 16	3.0	0 4	1.0
6	12 12 41	126	− 5 52.7	−11.6	56.7	19 14.5	1.94	13 27	2.9	0 28	1.0
7	13 3 9	126	−10 16.4	−10.3	56.1	20 0.9	1.94	14 37	2.9	0 51	1.0
8	13 53 54	128	−14 6.0	− 8.7	55.5	20 47.6	1.96	15 45	2.8	1 16	1.1
9	14 45 21	130	−17 12.0	− 6.7	55.0	21 35.0	1.99	16 50	2.6	1 43	1.2
10	15 37 35	131	−19 26.4	− 4.4	54.6	22 23.2	2.02	17 52	2.5	2 14	1.4
11	16 30 24	132	−20 43.2	− 1.9	54.3	23 11.9	2.03	18 50	2.3	2 50	1.6
12	— — —	—	— —	—	—	— —	—	19 42	2.0	3 32	1.9
13	17 23 18	132	−20 59.3	+ 0.6	54.1	0 0.7	2.03	20 27	1.7	4 20	2.1

Tag	0h Welt-Zeit									
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1938	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Juni 13	17 23 17	50 42	−20 59.3	0 41.9	54 7.9	7.0	14 46.5	1.9	261.426	+2.184
14	18 13 59	49 48	−20 17.4	1 35.3	54 0.9	1.5	14 44.6	0.5	273.284	+3.116
15	19 3 47	48 38	−18 42.1	2 23.1	53 59.4	4.6	14 44.1	1.3	285.120	+3.910
16	19 52 25	47 27	−16 19.0	3 4.3	54 4.0	11.5	14 45.4	3.1	296.971	+4.536
17	20 39 52	46 31	−13 14.7	3 37.7	54 15.5	19.1	14 48.5	5.2	308.875	+4.969
18	21 26 23	46 2	− 9 37.0	4 3.5	54 34.6	27.2	14 53.7	7.4	320.879	+5.188
19	22 12 25	46 12	− 5 33.5	4 21.1	55 1.8	35.8	15 1.1	9.8	333.035	+5.179
20	22 58 37	47 8	− 1 12.4	4 30.2	55 37.6	43.9	15 10.9	11.9	345.402	+4.931
21	23 45 45	48 55	+ 3 17.8	4 29.0	56 21.5	50.8	15 22.8	13.9	358.044	+4.442
22	0 34 40	51 33	+ 7 46.8	4 15.2	57 12.3	55.6	15 36.7	15.1	11.025	+3.716
23	1 26 13	54 56	+12 2.0	3 45.5	58 7.9	56.7	15 51.8	15.5	24.399	+2.769
24	2 21 9	58 40	+15 47.5	2 57.0	59 4.6	53.1	16 7.3	14.4	38.208	+1.633
25	3 19 49	62 6	+18 44.5	1 48.8	59 57.7	43.9	16 21.7	12.0	52.461	+0.363
26	4 21 55	64 22	+20 33.3	0 24.5	60 41.6	29.5	16 33.7	8.1	67.127	−0.964
27	5 26 17	64 51	+20 57.8	1 6.8	61 11.1	11.1	16 41.8	3.0	82.127	−2.253
28	6 31 8	63 25	+19 51.0	2 32.4	61 22.2	8.9	16 44.8	2.4	97.330	−3.398
29	7 34 33	60 40	+17 18.6	3 41.6	61 13.3	27.3	16 42.4	7.5	112.573	−4.302
30	8 35 13	57 25	+13 37.0	4 28.5	60 46.0	41.9	16 34.9	11.4	127.681	−4.897
Juli 1	9 32 38	54 25	+ 9 8.5	4 52.7	60 4.1	51.2	16 23.5	14.0	142.500	−5.151
2	10 27 3	52 3	+ 4 15.8	4 57.1	59 12.9	55.2	16 9.5	15.0	156.917	−5.068
3	11 19 6	50 28	− 0 41.3	4 45.7	58 17.7	54.4	15 54.5	14.8	170.875	−4.683
4	12 9 34	49 41	− 5 27.0	4 21.8	57 23.3	50.3	15 39.7	13.7	184.365	−4.048
5	12 59 15	49 31	− 9 48.8	3 48.3	56 33.0	43.9	15 26.0	12.0	197.420	−3.219
6	13 48 46	49 48	−13 37.1	3 6.8	55 49.1	36.5	15 14.0	9.9	210.099	−2.253
7	14 38 34	50 19	−16 43.9	2 18.8	55 12.6	28.8	15 4.1	7.9	222.472	−1.204
8	15 28 53	50 47	−19 2.7	1 26.0	54 43.8	21.3	14 56.2	5.8	234.615	−0.121
9	16 19 40	50 57	−20 28.7	0 30.2	54 22.5	14.3	14 50.4	3.9	246.596	+0.952
10	17 10 37	50 43	−20 58.9	0 26.2	54 8.2	7.9	14 46.5	2.1	258.478	+1.972
11	18 1 20	50 3	−20 32.7	1 20.4	54 0.3	2.1	14 44.4	0.6	270.314	+2.900
12	18 51 23	49 2	−19 12.3	2 10.0	53 58.2	3.4	14 43.8	0.9	282.144	+3.700
13	19 40 25	47 54	−17 2.3	2 53.4	54 1.6	8.6	14 44.7	2.4	294.005	+4.340
14	20 28 19	46 53	−14 8.9	3 29.1	54 10.2	14.1	14 47.1	3.8	305.923	+4.793
15	21 15 12	46 9	−10 39.8	3 56.5	54 24.3	19.8	14 50.9	5.4	317.925	+5.037
16	22 1 21	45 57	− 6 43.3	4 15.4	54 44.1	25.9	14 56.3	7.1	330.038	+5.059
17	22 47 18	46 22	− 2 27.9	4 25.2	55 10.0	32.4	15 3.4	8.8	342.294	+4.849
18	23 33 40	47 33	+ 1 57.3	4 25.3	55 42.4	38.8	15 12.2	10.6	354.731	+4.409
19	0 21 13	49 31	+ 6 22.6	4 14.4	56 21.2	44.7	15 22.8	12.2	7.397	+3.747
20	1 10 44	52 14	+10 37.0	3 50.3	57 5.9	49.4	15 35.0	13.4	20.343	+2.880
21	2 2 58	55 32	+14 27.3	3 10.6	57 55.3	51.6	15 48.4	14.1	33.623	+1.836
22	2 58 30	58 57	+17 37.9	2 13.8	58 46.9	50.2	16 2.5	13.6	47.285	+0.661
23	3 57 27	61 52	+19 51.7	1 0.5	59 37.1	44.3	16 16.1	12.1	61.358	−0.588
24	4 59 19		+20 52.2		60 21.4		16 28.2		75.840	−1.833

Tag	Obere Kulmination in Greenwich							0ʰ Länge, + 50° Breite			
	AR.	Änderung für 1ʰ westl. Länge	Dekl.	Änderung für 1ʰ westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1ʰ westl. Länge	Aufgang	Änderung für 1ʰ westl. Länge	Untergang	Änderung für 1ʰ westl. Länge
1938	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Juni 13	17 23 18	132	−20 59.3	+ 0.6	54.1	0 0.7	2.03	20 27	1.7	4 20	2.1
14	18 15 42	130	−20 15.0	+ 3.1	54.0	0 49.0	1.99	21 5	1.5	5 14	2.3
15	19 7 5	127	−18 34.0	+ 5.3	54.0	1 36.3	1.95	21 37	1.3	6 12	2.5
16	19 57 10	124	−16 2.5	+ 7.3	54.1	2 22.4	1.89	22 5	1.1	7 14	2.6
17	20 45 58	121	−12 48.2	+ 8.9	54.3	3 7.1	1.84	22 30	1.0	8 17	2.6
18	21 33 47	119	− 8 59.5	+10.1	54.6	3 50.8	1.81	22 53	0.9	9 21	2.7
19	22 21 11	119	− 4 44.9	+11.0	55.1	4 34.2	1.81	23 14	0.9	10 26	2.7
20	23 8 55	120	− 0 13.2	+11.6	55.8	5 17.9	1.84	23 36	1.0	11 32	2.8
21	23 57 52	125	+ 4 26.2	+11.6	56.6	6 2.7	1.91	— —	—	12 42	2.9
22	0 49 2	132	+ 9 1.5	+11.2	57.5	6 49.8	2.03	0 0	1.1	13 53	3.0
23	1 43 23	141	+13 18.1	+10.1	58.4	7 40.1	2.18	0 27	1.2	15 7	3.1
24	2 41 40	151	+16 57.3	+ 8.1	59.4	8 34.3	2.35	0 59	1.5	16 21	3.1
25	3 44 9	161	+19 37.0	+ 5.1	60.3	9 32.7	2.51	1 39	1.9	17 35	3.0
26	4 50 5	168	+20 55.1	+ 1.3	60.9	10 34.5	2.62	2 29	2.3	18 43	2.6
27	5 57 47	170	+20 36.8	− 2.9	61.3	11 38.1	2.65	3 31	2.8	19 41	2.2
28	7 4 56	165	+18 40.3	− 6.8	61.3	12 41.1	2.58	4 43	3.1	20 29	1.8
29	8 9 33	157	+15 19.3	− 9.8	61.0	13 41.6	2.45	6 2	3.3	21 8	1.5
30	9 10 38	148	+10 57.3	−11.8	60.4	14 38.6	2.30	7 23	3.4	21 39	1.2
Juli 1	10 8 10	140	+ 6 0.5	−12.7	59.5	15 32.1	2.16	8 43	3.3	22 7	1.1
2	11 2 47	134	+ 0 52.5	−12.8	58.6	16 22.6	2.06	10 0	3.1	22 32	1.0
3	11 55 21	130	− 4 7.8	−12.1	57.6	17 11.1	2.00	11 14	3.0	22 56	1.0
4	12 46 49	128	− 8 45.9	−11.0	56.8	17 58.5	1.96	12 26	2.9	23 21	1.1
5	13 37 56	128	−12 50.5	− 9.4	56.0	18 45.5	1.96	13 35	2.8	23 47	1.2
6	14 29 18	129	−16 12.7	− 7.4	55.3	19 32.8	1.98	14 42	2.7	— —	—
7	15 21 11	130	−18 44.9	− 5.2	54.8	20 20.6	2.01	15 45	2.6	0 17	1.3
8	16 13 37	132	−20 21.4	− 2.8	54.4	21 9.0	2.02	16 45	2.4	0 51	1.5
9	17 6 17	132	−20 58.5	− 0.1	54.2	21 57.6	2.02	17 38	2.1	1 31	1.8
10	17 58 45	130	−20 35.4	+ 2.2	54.0	22 46.0	2.00	18 26	1.8	2 16	2.0
11	18 50 28	128	−19 14.3	+ 4.5	54.0	23 33.6	1.96	19 6	1.5	3 8	2.3
12	— — —	—	— —	—	—	— —	—	19 40	1.3	4 5	2.5
13	19 41 6	125	−17 0.1	+ 6.6	54.0	0 20.2	1.92	20 10	1.2	5 6	2.6
14	20 30 28	122	−14 0.1	+ 8.3	54.2	1 5.5	1.86	20 36	1.0	6 8	2.6
15	21 18 44	120	−10 22.6	+ 9.7	54.4	1 49.7	1.83	20 59	0.9	7 12	2.7
16	22 6 14	118	− 6 16.9	+10.7	54.8	2 33.1	1.80	21 21	0.9	8 17	2.7
17	22 53 35	119	− 1 52.1	+11.3	55.2	3 16.4	1.81	21 42	0.9	9 23	2.8
18	23 41 30	121	+ 2 41.8	+11.5	55.8	4 0.3	1.85	22 5	1.0	10 30	2.8
19	0 30 51	126	+ 7 14.3	+11.2	56.5	4 45.6	1.93	22 30	1.1	11 39	2.9
20	1 22 33	133	+11 32.9	+10.3	57.3	5 33.2	2.05	22 58	1.3	12 49	3.0
21	2 17 26	142	+15 22.7	+ 8.7	58.1	6 24.0	2.20	23 33	1.6	14 1	3.0
22	3 16 6	152	+18 25.5	+ 6.4	59.0	7 18.5	2.35	— —	—	15 14	2.9
23	4 18 31	160	+20 21.6	+ 3.2	59.9	8 16.9	2.50	0 17	2.0	16 22	2.7
24	5 23 51	166	+20 53.1	− 0.6	60.6	9 18.1	2.59	1 11	2.5	17 24	2.4

Tag	0ʰ Welt-Zeit									
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1938	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Juli 24	4 59 19	63 35	+20 52.2	0 24.6	60 21.4	33.1	16 28.2	9.0	75.840	−1.833
25	6 2 54	63 39	+20 27.6	1 51.9	60 54.5	17.6	16 37.2	4.8	90.681	−2.983
26	7 6 33	62 8	+18 35.7	3 10.6	61 12.1	1.1	16 42.0	0.3	105.783	−3.944
27	8 8 41	59 40	+15 25.1	4 11.1	61 11.0	20.0	16 41.7	5.4	120.996	−4.631
28	9 8 21	56 55	+11 14.0	4 48.8	60 51.0	36.6	16 36.3	10.0	136.146	−4.990
29	10 5 16	54 26	+ 6 25.2	5 3.8	60 14.4	48.7	16 26.3	13.3	151.058	−5.002
30	10 59 42	52 33	+ 1 21.4	4 58.8	59 25.7	55.5	16 13.0	15.1	165.594	−4.688
31	11 52 15	51 20	− 3 37.4	4 38.0	58 30.2	56.9	15 57.9	15.5	179.667	−4.094
Aug. 1	12 43 35	50 44	− 8 15.4	4 5.0	57 33.3	54.0	15 42.4	14.7	193.246	−3.285
2	13 34 19	50 36	−12 20.4	3 23.3	56 39.3	47.8	15 27.7	13.0	206.353	−2.327
3	14 24 55	50 44	−15 43.7	2 34.9	55 51.5	39.7	15 14.7	10.8	219.043	−1.281
4	15 15 39	50 56	−18 18.6	1 41.9	55 11.8	30.7	15 3.9	8.4	231.395	−0.201
5	16 6 35	50 59	−20 0.5	0 46.4	54 41.1	21.5	14 55.5	5.9	243.493	+0.865
6	16 57 34	50 45	−20 46.9	0 9.7	54 19.6	12.7	14 49.6	3.4	255.424	+1.877
7	17 48 19	50 11	−20 37.2	1 4.3	54 6.9	4.6	14 46.2	1.3	267.265	+2.798
8	18 38 30	49 20	−19 32.9	1 55.3	54 2.3	2.4	14 44.9	0.7	279.084	+3.595
9	19 27 50	48 21	−17 37.6	2 40.7	54 4.7	8.6	14 45.6	2.3	290.938	+4.236
10	20 16 11	47 23	−14 56.9	3 19.1	54 13.3	13.8	14 47.9	3.8	302.868	+4.696
11	21 3 34	46 40	−11 37.8	3 49.5	54 27.1	18.2	14 51.7	4.9	314.904	+4.950
12	21 50 14	46 21	− 7 48.3	4 11.1	54 45.3	22.3	14 56.6	6.1	327.067	+4.983
13	22 36 35	46 31	− 3 37.2	4 23.0	55 7.6	25.9	15 2.7	7.1	339.370	+4.786
14	23 23 6	47 21	+ 0 45.8	4 24.9	55 33.5	29.6	15 9.8	8.0	351.828	+4.359
15	0 10 27	48 48	+ 5 10.7	4 15.5	56 3.1	33.2	15 17.8	9.1	4.456	+3.713
16	0 59 15	50 55	+ 9 26.2	3 53.6	56 36.3	36.6	15 26.9	9.9	17.276	+2.870
17	1 50 10	53 34	+13 19.8	3 18.0	57 12.9	39.2	15 36.8	10.7	30.318	+1.862
18	2 43 44	56 25	+16 37.8	2 27.6	57 52.1	40.7	15 47.5	11.1	43.618	+0.733
19	3 40 9	59 7	+19 5.4	1 23.0	58 32.8	40.0	15 58.6	10.9	57.213	−0.463
20	4 39 16	61 2	+20 28.4	0 6.8	59 12.8	36.3	16 9.5	9.9	71.132	−1.660
21	5 40 18	61 48	+20 35.2	1 14.9	59 49.1	28.9	16 19.4	7.9	85.384	−2.781
22	6 42 6	61 17	+19 20.3	2 33.7	60 18.0	17.6	16 27.3	4.8	99.946	−3.746
23	7 43 23	59 46	+16 46.6	3 40.9	60 35.6	3.3	16 32.1	0.9	114.751	−4.475
24	8 43 9	57 45	+13 5.7	4 29.9	60 38.9	12.7	16 33.0	3.5	129.688	−4.907
25	9 40 54	55 44	+ 8 35.8	4 57.7	60 26.2	27.9	16 29.5	7.6	144.616	−5.005
26	10 36 38	54 3	+ 3 38.1	5 4.1	59 58.3	40.6	16 21.9	11.1	159.378	−4.767
27	11 30 41	52 51	− 1 26.0	4 51.4	59 17.7	49.2	16 10.8	13.3	173.837	−4.225
28	12 23 32	52 10	− 6 17.4	4 23.2	58 28.5	52.9	15 57.5	14.5	187.893	−3.438
29	13 15 42	51 50	−10 40.6	3 43.2	57 35.6	52.2	15 43.0	14.2	201.495	−2.474
30	14 7 32	51 46	−14 23.8	2 54.8	56 43.4	47.6	15 28.8	13.0	214.644	−1.406
31	14 59 18	51 42	−17 18.6	2 1.1	55 55.8	40.3	15 15.8	10.9	227.377	−0.298
Sept. 1	15 51 0	51 32	−19 19.7	1 4.6	55 15.5	31.3	15 4.9	8.6	239.762	+0.796
2	16 42 32	51 6	−20 24.3	0 7.8	54 44.2	21.4	14 56.3	5.8	251.881	+1.831
3	17 33 38		−20 32.1		54 22.8		14 50.5		263.823	+2.770

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, + 50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1938	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Juli 24	5 23 51	166	+20 53.1	− 0.6	60.6	9 18.1	2.59	1 11	2.5	17 24	2.4
25	6 30 25	166	+19 49.9	− 4.6	61.1	10 20.5	2.60	2 17	2.9	18 17	2.0
26	7 36 15	162	+17 14.3	− 8.2	61.2	11 22.3	2.53	3 32	3.3	19 0	1.6
27	8 39 46	155	+13 22.0	−11.0	61.0	12 21.7	2.41	4 53	3.4	19 36	1.4
28	9 40 13	147	+ 8 37.1	−12.6	60.5	13 18.0	2.29	6 15	3.4	20 7	1.2
29	10 37 43	140	+ 3 26.0	−13.2	59.8	14 11.4	2.17	7 36	3.3	20 34	1.1
30	11 32 49	135	− 1 47.5	−12.8	58.9	15 2.5	2.09	8 53	3.2	20 59	1.0
31	12 26 17	132	− 6 44.3	−11.8	57.9	15 51.8	2.04	10 8	3.1	21 24	1.1
Aug. 1	13 18 51	131	−11 9.7	−10.2	56.9	16 40.4	2.01	11 21	3.0	21 51	1.2
2	14 11 9	131	−14 53.0	− 8.3	56.1	17 28.6	2.01	12 30	2.8	22 20	1.3
3	15 3 32	131	−17 46.3	− 6.1	55.3	18 16.9	2.02	13 36	2.6	22 53	1.5
4	15 56 9	132	−19 44.1	− 3.7	54.8	19 5.4	2.03	14 37	2.4	23 31	1.7
5	16 48 52	132	−20 43.0	− 1.2	54.4	19 54.0	2.03	15 33	2.2	— —	—
6	17 41 23	131	−20 41.8	+ 1.3	54.1	20 42.5	2.02	16 22	1.9	0 14	1.9
7	18 33 20	129	−19 42.0	+ 3.7	54.0	21 30.4	1.98	17 5	1.7	1 4	2.2
8	19 24 21	126	−17 47.4	+ 5.8	54.1	22 17.3	1.93	17 42	1.4	1 59	2.4
9	20 14 17	123	−15 4.1	+ 7.7	54.2	23 3.2	1.89	18 13	1.2	2 59	2.5
10	21 3 11	121	−11 39.6	+ 9.3	54.4	23 48.0	1.85	18 40	1.1	4 0	2.6
11	— — —	—	— —	—	—	— —	—	19 5	1.0	5 4	2.7
12	21 51 16	120	− 7 42.9	+10.4	54.8	0 32.0	1.83	19 27	0.9	6 9	2.7
13	22 39 1	119	− 3 23.6	+11.1	55.1	1 15.7	1.82	19 50	0.9	7 15	2.8
14	23 27 0	121	+ 1 7.9	+11.4	55.6	1 59.6	1.85	20 12	1.0	8 21	2.8
15	0 15 56	124	+ 5 40.6	+11.2	56.1	2 44.5	1.90	20 36	1.1	9 29	2.9
16	1 6 34	129	+10 2.1	+10.5	56.7	3 31.1	1.99	21 3	1.2	10 39	2.9
17	1 59 38	136	+13 58.6	+ 9.1	57.3	4 20.1	2.10	21 35	1.5	11 49	2.9
18	2 55 43	144	+17 14.6	+ 7.1	58.0	5 12.1	2.23	22 14	1.8	13 0	2.9
19	3 55 0	152	+19 33.3	+ 4.4	58.7	6 7.3	2.36	23 2	2.2	14 8	2.7
20	4 57 8	158	+20 38.7	+ 1.0	59.4	7 5.3	2.46	— —	—	15 10	2.4
21	6 1 6	161	+20 19.1	− 2.7	60.0	8 5.1	2.51	0 1	2.6	16 5	2.1
22	7 5 26	160	+18 30.9	− 6.3	60.4	9 5.4	2.50	1 9	3.0	16 52	1.8
23	8 8 42	156	+15 21.1	− 9.4	60.6	10 4.5	2.43	2 25	3.3	17 31	1.5
24	9 9 57	150	+11 6.5	−11.7	60.6	11 1.7	2.33	3 46	3.4	18 4	1.3
25	10 8 52	145	+ 6 9.8	−12.9	60.2	11 56.5	2.24	5 6	3.3	18 32	1.1
26	11 5 41	140	+ 0 55.2	−13.2	59.6	12 49.2	2.16	6 26	3.3	18 59	1.1
27	12 0 54	137	− 4 14.6	−12.5	58.8	13 40.4	2.10	7 44	3.2	19 25	1.1
28	12 55 7	135	− 9 0.7	−11.2	57.9	14 30.5	2.08	8 59	3.1	19 52	1.2
29	13 48 50	134	−13 8.4	− 9.4	57.0	15 20.2	2.06	10 11	2.9	20 21	1.3
30	14 42 23	134	−16 27.2	− 7.2	56.2	16 9.6	2.06	11 20	2.8	20 53	1.4
31	15 35 54	134	−18 50.0	− 4.7	55.4	16 59.0	2.06	12 25	2.6	21 29	1.6
Sept. 1	16 29 15	133	−20 13.1	− 2.2	54.9	17 48.3	2.05	13 24	2.3	22 11	1.9
2	17 22 14	132	−20 35.2	+ 0.3	54.4	18 37.2	2.03	14 16	2.0	22 59	2.1
3	18 14 31	130	−19 57.9	+ 2.8	54.2	19 25.4	1.99	15 1	1.8	23 52	2.3

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1938	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Sept. 3	17 33 38	50 26	−20 32.1	0 47.4	54 22.8	11.4	14 50.5	3.1	263.823	+2.770
4	18 24 4	49 34	−19 44.7	1 39.0	54 11.4	1.8	14 47.4	0.5	275.674	+3.582
5	19 13 38	48 35	−18 5.7	2 25.7	54 9.6	6.8	14 46.9	1.9	287.515	+4.238
6	20 2 13	47 43	−15 40.0	3 6.3	54 16.4	14.2	14 48.8	3.8	299.416	+4.712
7	20 49 56	47 4	−12 33.7	3 39.8	54 30.6	20.2	14 52.6	5.5	311.432	+4.984
8	21 37 0	46 48	− 8 53.9	4 5.0	54 50.8	24.5	14 58.1	6.7	323.603	+5.034
9	22 23 48	47 0	− 4 48.9	4 20.8	55 15.3	27.5	15 4.8	7.5	335.957	+4.851
10	23 10 48	47 44	− 0 28.1	4 26.2	55 42.8	29.1	15 12.3	7.9	348.504	+4.432
11	23 58 32	49 4	+ 3 58.1	4 19.7	56 11.9	29.7	15 20.2	8.1	1.245	+3.786
12	0 47 36	50 56	+ 8 17.8	4 0.3	56 41.6	29.7	15 28.3	8.1	14.178	+2.935
13	1 38 32	53 12	+12 18.1	3 26.6	57 11.3	29.1	15 36.4	7.9	27.298	+1.916
14	2 31 44	55 37	+15 44.7	2 38.7	57 40.4	28.2	15 44.3	7.7	40 604	+0.776
15	3 27 21	57 50	+18 23.4	1 37.5	58 8.6	27.0	15 52.0	7.4	54.101	−0.426
16	4 25 11	59 25	+20 0.9	0 26.1	58 35.6	24.9	15 59.4	6.8	67.798	−1.622
17	5 24 36	60 2	+20 27.0	0 50.4	59 0.5	21.6	16 6.2	5.9	81.702	−2.742
18	6 24 38	59 40	+19 36.6	2 5.4	59 22.1	16.6	16 12.1	4.5	95.814	−3.712
19	7 24 18	58 28	+17 31.2	3 11.9	59 38.7	9.4	16 16.6	2.6	110.117	−4.465
20	8 22 46	56 52	+14 19.3	4 4.7	59 48.1	0.2	16 19.2	0.0	124.568	−4.943
21	9 19 38	55 17	+10 14.6	4 40.2	59 48.3	10.5	16 19.2	2.9	139.098	−5.107
22	10 14 55	53 58	+ 5 34.4	4 56.6	59 37.8	21.6	16 16.3	5.8	153.611	−4.944
23	11 8 53	53 6	+ 0 37.8	4 54.3	59 16.2	31.8	16 10.5	8.7	167.999	−4.469
24	12 1 59	52 40	− 4 16.5	4 34.8	58 44.4	39.6	16 1.8	10.8	182.157	−3.724
25	12 54 39	52 33	− 8 51.3	4 0.8	58 4.8	44.3	15 51.0	12.1	196.001	−2.772
26	13 47 12	52 37	−12 52.1	3 15.5	57 20.5	45.4	15 38.9	12.3	209.479	−1.686
27	14 39 49	52 37	−16 7.6	2 22.5	56 35.1	42.9	15 26.6	11.7	222.571	−0.537
28	15 32 26	52 24	−18 30.1	1 25.2	55 52.2	37.4	15 14.9	10.2	235.297	+0.610
29	16 24 50	51 52	−19 55.3	0 27.0	55 14.8	29.5	15 4.7	8.1	247.702	+1.701
30	17 16 42	51 1	−20 22.3	0 29.4	54 45.3	20.2	14 56.6	5.5	259.849	+2.693
Okt. 1	18 7 43	49 57	−19 52.9	1 22.3	54 25.1	9.9	14 51.1	2.7	271.819	+3.553
2	18 57 40	48 48	−18 30.6	2 9.8	54 15.2	0.5	14 48.4	0.2	283.693	+4.252
3	19 46 28	47 48	−16 20.8	2 51.7	54 15.7	10.5	14 48.6	2.8	295.557	+4.769
4	20 34 16	47 4	−13 29.1	3 27.0	54 26.2	19.5	14 51.4	5.3	307.490	+5.083
5	21 21 20	46 47	−10 2.1	3 55.0	54 45.7	26.9	14 56.7	7.4	319.561	+5.176
6	22 8 7	47 0	− 6 7.1	4 15.0	55 12.6	32.5	15 4.1	8.8	331.829	+5.036
7	22 55 7	47 50	− 1 52.1	4 25.3	55 45.1	35.6	15 12.9	9.7	344.336	+4.656
8	23 42 57	49 16	+ 2 33.2	4 24.2	56 20.7	36.3	15 22.6	9.9	357.104	+4.038
9	0 32 13	51 15	+ 6 57.4	4 9.6	56 57.0	34.5	15 32.5	9.4	10.140	+3.198
10	1 23 28	53 37	+11 7.0	3 39.8	57 31.5	30.9	15 41.9	8.5	23.430	+2.168
11	2 17 5	56 6	+14 46.8	2 54.3	58 2.4	25.8	15 50.4	7.0	36.950	+0.998
12	3 13 11	58 17	+17 41.1	1 53.9	58 28.2	20.1	15 57.4	5.4	50.666	−0.248
13	4 11 28	59 41	+19 35.0	0 42.7	58 48.3	14.2	16 2.8	3.9	64.543	−1.496
14	5 11 9		+20 17.7		59 2.5		16 6.7		78.545	−2.667

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, + 50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1938	h m s	s	° '	'	'	h m	m	h m	m	h m	m
Sept. 3	18 14 31	130	−19 57.9	+ 2.8	54.2	19 25.4	1.99	15 1	1.8	23 52	2.3
4	19 5 52	127	−18 24.6	+ 5.0	54.2	20 12.7	1.95	15 40	1.5	— —	—
5	19 56 10	124	−16 0.7	+ 7.0	54.3	20 59.0	1.90	16 14	1.3	0 50	2.5
6	20 45 28	122	−12 52.8	+ 8.6	54.5	21 44.2	1.87	16 43	1.1	1 50	2.6
7	21 34 2	121	− 9 8.7	+10.0	54.8	22 28.7	1.85	17 8	1.0	2 53	2.7
8	22 22 16	121	− 4 57.3	+10.9	55.2	23 12.9	1.84	17 32	1.0	3 58	2.7
9	23 10 42	122	− 0 28.6	+11.4	55.7	23 57.2	1.86	17 54	0.9	5 4	2.8
10	— — —	—	— —	—	—	— —	—	18 17	1.0	6 11	2.8
11	23 59 58	125	+ 4 5.9	+11.4	56.2	0 42.4	1.91	18 41	1.1	7 19	2.9
12	0 50 42	129	+ 8 33.4	+10.8	56.7	1 29.1	1.99	19 8	1.2	8 29	2.9
13	1 43 31	135	+12 39.5	+ 9.6	57.2	2 17.8	2.08	19 39	1.4	9 40	2.9
14	2 38 54	142	+16 8.6	+ 7.7	57.7	3 9.1	2.20	20 16	1.7	10 50	2.9
15	3 36 58	148	+18 44.5	+ 5.2	58.2	4 3.1	2.30	21 0	2.0	11 59	2.8
16	4 37 26	154	+20 12.4	+ 2.1	58.7	4 59.5	2.39	21 54	2.4	13 2	2.5
17	5 39 29	156	+20 21.6	− 1.3	59.1	5 57.4	2.43	22 57	2.8	13 59	2.2
18	6 41 57	156	+19 7.8	− 4.8	59.5	6 55.8	2.43	— —	—	14 47	1.8
19	7 43 41	153	+16 34.9	− 7.9	59.7	7 53.4	2.37	0 8	3.1	15 27	1.5
20	8 43 52	148	+12 54.6	−10.4	59.8	8 49.5	2.30	1 24	3.2	16 1	1.3
21	9 42 14	144	+ 8 24.2	−12.0	59.8	9 43.8	2.23	2 42	3.3	16 31	1.2
22	10 38 54	140	+ 3 24.2	−12.8	59.5	10 36.4	2.16	4 1	3.3	16 59	1.1
23	11 34 19	137	− 1 44.1	−12.7	59.0	11 27.7	2.12	5 18	3.2	17 25	1.1
24	12 29 1	136	− 6 40.8	−11.9	58.4	12 18.3	2.10	6 34	3.1	17 52	1.1
25	13 23 26	136	−11 8.2	−10.3	57.7	13 8.6	2.10	7 48	3.0	18 20	1.2
26	14 17 51	136	−14 52.1	− 8.3	56.9	13 59.0	2.10	9 0	2.9	18 50	1.4
27	15 12 19	136	−17 42.2	− 5.9	56.1	14 49.4	2.10	10 8	2.7	19 26	1.6
28	16 6 40	135	−19 32.3	− 3.3	55.5	15 39.7	2.08	11 10	2.5	20 7	1.8
29	17 0 33	134	−20 20.1	− 0.7	54.9	16 29.5	2.06	12 6	2.2	20 53	2.0
30	17 53 36	131	−20 6.6	+ 1.8	54.5	17 18.4	2.02	12 55	1.9	21 44	2.2
Okt. 1	18 45 30	128	−18 55.5	+ 4.1	54.3	18 6.3	1.97	13 36	1.6	22 40	2.4
2	19 36 9	125	−16 52.2	+ 6.1	54.2	18 52.8	1.92	14 12	1.4	23 39	2.5
3	20 25 38	122	−14 3.1	+ 7.9	54.4	19 38.3	1.87	14 43	1.2	— —	—
4	21 14 16	121	−10 35.3	+ 9.4	54.7	20 22.8	1.85	15 10	1.1	0 41	2.6
5	22 2 29	121	− 6 36.6	+10.5	55.2	21 7.0	1.84	15 34	1.0	1 44	2.7
6	22 50 54	122	− 2 15.5	+11.2	55.7	21 51.3	1.86	15 57	1.0	2 49	2.8
7	23 40 9	125	+ 2 17.7	+11.5	56.3	22 36.5	1.91	16 20	1.0	3 56	2.8
8	0 30 56	129	+ 6 50.7	+11.2	56.9	23 23.2	1.99	16 44	1.1	5 4	2.9
9	— — —	—	— —	—	—	— —	—	17 11	1.2	6 15	3.0
10	1 23 54	136	+11 9.0	+10.2	57.5	0 12.1	2.09	17 40	1.4	7 26	3.0
11	2 19 31	143	+14 55.6	+ 8.5	58.1	1 3.6	2.20	18 16	1.6	8 38	3.0
12	3 17 53	149	+17 52.8	+ 6.1	58.5	1 57.9	2.32	18 59	2.0	9 49	2.9
13	4 18 39	154	+19 44.1	+ 3.1	58.8	2 54.6	2.40	19 51	2.3	10 55	2.6
14	5 20 52	156	+20 17.5	− 0.3	59.1	3 52.7	2.43	20 51	2.7	11 54	2.3

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1938	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Okt. 14	5 11 9	60 3	+20 17.7	0 33.6	59 2.5	8.8	16 6.7	2.4	78.545	−2.667
15	6 11 12	59 19	+19 44.1	1 47.7	59 11.3	3.8	16 9.1	1.1	92.640	−3.685
16	7 10 31	57 49	+17 56.4	2 53.4	59 15.1	0.8	16 10.2	0.3	106.799	−4.483
17	8 8 20	55 59	+15 3.0	3 46.1	59 14.3	5.5	16 9.9	1.5	120.991	−5.010
18	9 4 19	54 15	+11 16.9	4 23.3	59 8.8	10.5	16 8.4	2.8	135.180	−5.232
19	9 58 34	52 55	+ 6 53.6	4 43.9	58 58.3	15.8	16 5.6	4.3	149.326	−5.136
20	10 51 29	52 7	+ 2 9.7	4 48.2	58 42.5	21.6	16 1.3	5.9	163.380	−4.733
21	11 43 36	51 52	− 2 38.5	4 36.6	58 20.9	27.2	15 55.4	7.4	177.289	−4.055
22	12 35 28	52 3	− 7 15.1	4 10.3	57 53.7	31.9	15 48.0	8.7	191.001	−3.150
23	13 27 31	52 27	−11 25.4	3 31.2	57 21.8	35.1	15 39.3	9.6	204.469	−2.084
24	14 19 58	52 49	−14 56.6	2 42.2	56 46.7	36.3	15 29.7	9.9	217.662	−0.925
25	15 12 47	52 56	−17 38.8	1 46.4	56 10.4	35.1	15 19.8	9.5	230.564	+0.259
26	16 5 43	52 36	−19 25.2	0 47.5	55 35.3	31.3	15 10.3	8.6	243.181	+1.405
27	16 58 19	51 48	−20 12.7	0 10.5	55 4.0	25.3	15 1.7	6.9	255.536	+2.462
28	17 50 7	50 36	−20 2.2	1 5.2	54 38.7	17.4	14 54.8	4.7	267.673	+3.389
29	18 40 43	49 15	−18 57.0	1 54.4	54 21.3	8.1	14 50.1	2.2	279.648	+4.155
30	19 29 58	47 56	−17 2.6	2 37.2	54 13.2	2.2	14 47.9	0.6	291.530	+4.737
31	20 17 54	46 54	−14 25.4	3 13.5	54 15.4	12.8	14 48.5	3.5	303.394	+5.115
Nov. 1	21 4 48	46 20	−11 11.9	3 42.8	54 28.2	22.9	14 52.0	6.2	315.320	+5.276
2	21 51 8	46 21	− 7 29.1	4 5.0	54 51.1	32.2	14 58.2	8.8	327.385	+5.209
3	22 37 29	47 3	− 3 24.1	4 19.3	55 23.3	39.6	15 7.0	10.8	339.663	+4.905
4	23 24 32	48 28	+ 0 55.2	4 23.9	56 2.9	44.5	15 17.8	12.1	352.218	+4.362
5	0 13 0	50 35	+ 5 19.1	4 16.5	56 47.4	46.2	15 29.9	12.6	5.096	+3.589
6	1 3 35	53 16	+ 9 35.6	3 54.2	57 33.6	44.1	15 42.5	12.0	18.323	+2.605
7	1 56 51	56 15	+13 29.8	3 15.1	58 17.7	38.4	15 54.5	10.5	31.899	+1.450
8	2 53 6	59 2	+16 44.9	2 18.4	58 56.1	29.6	16 5.0	8.0	45.799	+0.183
9	3 52 8	61 2	+19 3.3	1 7.0	59 25.7	18.6	16 13.0	5.1	59.967	−1.120
10	4 53 10	61 44	+20 10.3	0 12.5	59 44.3	7.1	16 18.1	1.9	74.329	−2.369
11	5 54 54	61 0	+19 57.8	1 31.4	59 51.4	3.6	16 20.0	0.9	88.798	−3.477
12	6 55 54	59 11	+18 26.4	2 41.4	59 47.8	12.4	16 19.1	3.4	103.285	−4.363
13	7 55 5	56 48	+15 45.0	3 36.7	59 35.4	19.1	16 15.7	5.2	117.709	−4.969
14	8 51 53	54 29	+12 8.3	4 15.4	59 16.3	23.4	16 10.5	6.4	132.008	−5.262
15	9 46 22	52 35	+ 7 52.9	4 37.1	58 52.9	26.1	16 4.1	7.1	146.133	−5.233
16	10 38 57	51 22	+ 3 15.8	4 43.2	58 26.8	27.5	15 57.0	7.5	160.056	−4.896
17	11 30 19	50 50	− 1 27.4	4 34.9	57 59.3	28.4	15 49.5	7.7	173.762	−4.283
18	12 21 9	50 54	− 6 2.3	4 13.5	57 30.9	29.0	15 41.8	7.9	187.247	−3.443
19	13 12 3	51 23	−10 15.8	3 40.0	57 1.9	29.3	15 33.9	8.0	200.509	−2.429
20	14 3 26	52 2	−13 55.8	2 56.2	56 32.6	29.4	15 25.9	8.0	213.550	−1.305
21	14 55 28	52 33	−16 52.0	2 4.3	56 3.2	28.6	15 17.9	7.8	226.375	−0.134
22	15 48 1	52 39	−18 56.3	1 7.2	55 34.6	26.9	15 10.1	7.4	238.989	+1.025
23	16 40 40	52 14	−20 3.5	0 8.8	55 7.7	23.9	15 2.7	6.5	251.403	+2.115
24	17 32 54		−20 12.3		54 43.8		14 56.2		263.633	+3.091

Tag	Obere Kulmination in Greenwich							0h Länge, + 50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1938	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Okt. 14	5 20 52	156	+20 17.5	− 0.3	59.1	3 52.7	2.43	20 51	2.7	11 54	2.3
15	6 23 17	155	+19 28.2	− 3.8	59.2	4 51.0	2.41	22 0	3.0	12 45	1.9
16	7 24 40	151	+17 20.1	− 6.8	59.3	5 48.3	2.35	23 13	3.1	13 27	1.6
17	8 24 13	146	+14 4.3	− 9.4	59.2	6 43.8	2.27	— —	—	14 2	1.4
18	9 21 42	141	+ 9 56.6	−11.2	59.1	7 37.2	2.19	0 28	3.1	14 33	1.2
19	10 17 23	137	+ 5 14.8	−12.2	58.9	8 28.7	2.12	1 44	3.2	15 0	1.1
20	11 11 47	135	+ 0 17.4	−12.5	58.6	9 19.1	2.08	3 0	3.1	15 26	1.1
21	12 5 32	134	− 4 37.7	−12.0	58.2	10 8.7	2.07	4 14	3.1	15 52	1.1
22	12 59 14	135	− 9 13.6	−10.9	57.7	10 58.4	2.08	5 28	3.0	16 19	1.2
23	13 53 16	136	−13 14.9	− 9.1	57.1	11 48.3	2.09	6 40	2.9	16 49	1.3
24	14 47 46	137	−16 28.7	− 6.9	56.5	12 38.7	2.11	7 49	2.8	17 22	1.5
25	15 42 33	137	−18 45.7	− 4.4	55.8	13 29.5	2.11	8 54	2.6	18 0	1.7
26	16 37 12	136	−20 0.7	− 1.8	55.3	14 20.0	2.10	9 54	2.3	18 45	2.0
27	17 31 10	134	−20 12.7	+ 0.8	54.8	15 9.9	2.05	10 46	2.0	19 34	2.2
28	18 23 57	130	−19 24.6	+ 3.2	54.4	15 58.6	2.00	11 31	1.8	20 29	2.4
29	19 15 16	126	−17 41.9	+ 5.3	54.2	16 45.8	1.94	12 10	1.5	21 27	2.5
30	20 5 5	123	−15 11.6	+ 7.2	54.2	17 31.6	1.88	12 42	1.3	22 28	2.6
31	20 53 40	120	−12 1.1	+ 8.7	54.4	18 16.1	1.84	13 10	1.1	23 30	2.6
Nov. 1	21 41 30	119	− 8 17.7	+ 9.9	54.8	18 59.9	1.82	13 35	1.0	— —	—
2	22 29 12	120	− 4 9.0	+10.8	55.3	19 43.5	1.83	13 59	1.0	0 34	2.7
3	23 17 31	122	+ 0 16.5	+11.3	55.9	20 27.8	1.87	14 21	1.0	1 39	2.7
4	0 7 18	127	+ 4 48.7	+11.3	56.7	21 13.5	1.95	14 45	1.0	2 45	2.8
5	0 59 19	134	+ 9 15.1	+10.8	57.5	22 1.4	2.06	15 10	1.1	3 54	2.9
6	1 54 17	142	+13 19.6	+ 9.5	58.3	22 52.3	2.19	15 38	1.3	5 6	3.0
7	2 52 34	150	+16 43.3	+ 7.4	58.9	23 46.5	2.33	16 12	1.6	6 19	3.0
8	— — —	—	— —	—	—	— —	—	16 53	1.9	7 32	3.0
9	3 53 58	157	+19 6.4	+ 4.4	59.4	0 43.8	2.44	17 42	2.3	8 42	2.8
10	4 57 35	161	+20 12.1	+ 1.0	59.8	1 43.3	2.50	18 42	2.7	9 46	2.5
11	6 1 53	160	+19 51.3	− 2.7	59.9	2 43.5	2.50	19 50	2.9	10 41	2.1
12	7 5 12	156	+18 5.7	− 6.0	59.8	3 42.7	2.43	21 3	3.1	11 27	1.7
13	8 6 19	149	+15 6.8	− 8.8	59.5	4 39.7	2.32	22 19	3.1	12 4	1.4
14	9 4 43	143	+11 11.8	−10.7	59.2	5 34.1	2.21	23 34	3.1	12 36	1.3
15	10 0 37	137	+ 6 40.1	−11.8	58.8	6 25.9	2.11	— —	—	13 4	1.1
16	10 54 36	133	+ 1 50.1	−12.2	58.3	7 15.8	2.05	0 49	3.1	13 30	1.1
17	11 47 27	131	− 3 1.5	−12.0	57.8	8 4.6	2.02	2 2	3.0	13 55	1.1
18	12 39 57	131	− 7 39.3	−11.1	57.3	8 53.0	2.02	3 15	3.0	14 21	1.1
19	13 32 44	133	−11 49.3	− 9.7	56.8	9 41.7	2.04	4 26	2.9	14 49	1.2
20	14 26 10	134	−15 19.0	− 7.7	56.3	10 31.0	2.07	5 35	2.8	15 20	1.4
21	15 20 17	136	−17 57.7	− 5.4	55.8	11 21.1	2.10	6 41	2.6	15 56	1.6
22	16 14 47	136	−19 37.7	− 2.9	55.3	12 11.5	2.10	7 42	2.4	16 38	1.9
23	17 9 7	135	−20 15.5	− 0.3	54.9	13 1.7	2.08	8 38	2.2	17 26	2.1
24	18 2 37	132	−19 51.5	+ 2.2	54.5	13 51.2	2.03	9 26	1.9	18 18	2.3

Tag	0h Welt-Zeit									
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite
1938	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°
Nov. 24	17 32 54	51 14	−20 12.3	0 47.6	54 43.8	19.4	14 56.2	5.2	263.633	+3.091
25	18 24 8	49 53	−19 24.7	1 39.0	54 24.4	13.1	14 51.0	3.6	275.703	+3.914
26	19 14 1	48 23	−17 45.7	2 23.8	54 11.3	5.5	14 47.4	1.5	287.650	+4.556
27	20 2 24	47 1	−15 21.9	3 1.3	54 5.8	3.5	14 45.9	0.9	299.519	+4.999
28	20 49 25	46 2	−12 20.6	3 31.4	54 9.3	13.3	14 46.8	3.7	311.368	+5.227
29	21 35 27	45 35	− 8 49.2	3 54.5	54 22.6	23.7	14 50.5	6.4	323.263	+5.233
30	22 21 2	45 50	− 4 54.7	4 10.2	54 46.3	33.8	14 56.9	9.2	335.278	+5.011
Dez. 1	23 6 52	46 52	− 0 44.5	4 18.1	55 20.1	42.9	15 6.1	11.7	347.491	+4.562
2	23 53 44	48 41	+ 3 33.6	4 16.2	56 3.0	50.2	15 17.8	13.7	359.980	+3.889
3	0 42 25	51 20	+ 7 49.8	4 2.3	56 53.2	54.4	15 31.5	14.8	12.815	+3.006
4	1 33 45	54 34	+11 52.1	3 33.2	57 47.6	54.4	15 46.3	14.8	26.052	+1.939
5	2 28 19	58 2	+15 25.3	2 46.1	58 42.0	49.6	16 1.1	13.6	39.722	+0.728
6	3 26 21	61 7	+18 11.4	1 40.9	59 31.6	39.8	16 14.7	10.8	53.822	−0.561
7	4 27 28	63 5	+19 52.3	0 21.8	60 11.4	25.9	16 25.5	7.0	68.306	−1.847
8	5 30 33	63 23	+20 14.1	1 3.1	60 37.3	9.3	16 32.5	2.6	83.084	−3.034
9	6 33 56	62 3	+19 11.0	2 22.6	60 46.6	7.2	16 35.1	2.0	98.029	−4.026
10	7 35 59	59 37	+16 48.4	3 27.7	60 39.4	21.8	16 33.1	5.9	112.995	−4.744
11	8 35 36	56 47	+13 20.7	4 13.3	60 17.6	32.6	16 27.2	8.9	127.840	−5.136
12	9 32 23	54 12	+ 9 7.4	4 38.9	59 45.0	39.4	16 18.3	10.7	142.444	−5.188
13	10 26 35	52 14	+ 4 28.5	4 46.6	59 5.6	42.2	16 7.6	11.5	156.729	−4.914
14	11 18 49	51 2	− 0 18.1	4 39.0	58 23.4	41.9	15 56.1	11.5	170.659	−4.355
15	12 9 51	50 33	− 4 57.1	4 18.5	57 41.5	39.7	15 44.6	10.8	184.231	−3.563
16	13 0 24	50 39	− 9 15.6	3 47.1	57 1.8	36.3	15 33.8	9.9	197.471	−2.598
17	13 51 3	51 7	−13 2.7	3 6.2	56 25.5	32.4	15 23.9	8.8	210.419	−1.519
18	14 42 10	51 41	−16 8.9	2 17.8	55 53.1	28.6	15 15.1	7.8	223.118	−0.387
19	15 33 51	52 2	−18 26.7	1 23.6	55 24.5	24.9	15 7.3	6.8	235.610	+0.744
20	16 25 53	51 59	−19 50.3	0 26.7	54 59.6	21.2	15 0.5	5.7	247.933	+1.822
21	17 17 52	51 23	−20 17.0	0 29.9	54 38.4	17.3	14 54.8	4.7	260.116	+2.801
22	18 9 15	50 19	−19 47.1	1 23.0	54 21.1	12.9	14 50.1	3.6	272.182	+3.643
23	18 59 34	48 55	−18 24.1	2 10.2	54 8.2	8.0	14 46.5	2.1	284.154	+4.315
24	19 48 29	47 28	−16 13.9	2 50.0	54 0.2	1.8	14 44.4	0.6	296.054	+4.793
25	20 35 57	46 14	−13 23.9	3 21.9	53 58.4	5.2	14 43.8	1.5	307.911	+5.063
26	21 22 11	45 22	−10 2.0	3 46.0	54 3.6	13.3	14 45.3	3.6	319.760	+5.114
27	22 7 33	45 7	− 6 16.0	4 2.5	54 16.9	22.3	14 48.9	6.1	331.647	+4.946
28	22 52 40	45 33	− 2 13.5	4 11.2	54 39.2	31.8	14 55.0	8.7	343.631	+4.560
29	23 38 13	46 45	+ 1 57.7	4 11.7	55 11.0	41.2	15 3.7	11.2	355.779	+3.965
30	0 24 58	48 48	+ 6 9.4	4 2.5	55 52.2	49.7	15 14.9	13.5	8.168	+3.175
31	1 13 46	51 38	+10 11.9	3 41.2	56 41.9	56.0	15 28.4	15.3	20.877	+2.210
32	2 5 24		+13 53.1		57 37.9		15 43.7		33.981	+1.101

Tag	Obere Kulmination in Greenwich							0h Länge, + 50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1938	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Nov. 24	18 2 37	132	−19 51.5	+ 2.2	54.5	13 51.2	2.03	9 26	1.9	18 18	2.3
25	18 54 46	128	−18 30.0	+ 4.5	54.3	14 39.3	1.97	10 7	1.6	19 15	2.4
26	19 45 17	124	−16 18.0	+ 6.4	54.1	15 25.7	1.90	10 42	1.4	20 15	2.5
27	20 34 13	121	−13 23.4	+ 8.0	54.1	16 10.6	1.84	11 12	1.2	21 17	2.6
28	21 21 55	118	− 9 54.4	+ 9.3	54.3	16 54.2	1.80	11 38	1.0	22 19	2.6
29	22 8 55	117	− 5 58.9	+10.3	54.7	17 37.1	1.79	12 1	1.0	23 23	2.7
30	22 56 0	118	− 1 44.6	+10.9	55.2	18 20.1	1.80	12 24	0.9	— —	—
Dez. 1	23 43 59	122	+ 2 40.3	+11.1	55.9	19 4.1	1.87	12 46	1.0	0 27	2.7
2	0 33 48	128	+ 7 5.9	+10.9	56.7	19 49.8	1.96	13 10	1.0	1 34	2.8
3	1 26 23	136	+11 19.6	+10.1	57.7	20 38.3	2.09	13 36	1.2	2 42	2.9
4	2 22 29	145	+15 5.0	+ 8.5	58.6	21 30.4	2.25	14 6	1.4	3 53	3.0
5	3 22 28	155	+18 2.4	+ 6.1	59.5	22 26.2	2.41	14 43	1.7	5 6	3.0
6	4 25 59	162	+19 50.8	+ 2.8	60.2	23 25.7	2.53	15 28	2.1	6 19	3.0
7	— — —	—	— —	—	—	— —	—	16 24	2.5	7 28	2.7
8	5 31 45	166	+20 13.7	− 1.0	60.6	0 27.3	2.59	17 30	2.9	8 29	2.4
9	6 37 50	164	+19 4.3	− 4.8	60.8	1 29.3	2.56	18 44	3.2	9 21	2.0
10	7 42 19	158	+16 29.5	− 8.0	60.6	2 29.6	2.46	20 2	3.3	10 3	1.6
11	8 43 56	150	+12 46.6	−10.4	60.2	3 27.2	2.33	21 21	3.3	10 38	1.4
12	9 42 24	142	+ 8 18.1	−11.8	59.6	4 21.5	2.20	22 38	3.2	11 9	1.2
13	10 38 5	136	+ 3 26.2	−12.4	58.9	5 13.1	2.10	23 53	3.1	11 35	1.1
14	11 31 46	132	− 1 29.6	−12.2	58.2	6 2.7	2.04	— —	—	12 1	1.1
15	12 24 19	131	− 6 13.5	−11.4	57.5	6 51.2	2.01	1 6	3.0	12 26	1.1
16	13 16 32	131	−10 31.9	−10.1	56.8	7 39.4	2.01	2 16	2.9	12 53	1.2
17	14 9 1	132	−14 13.4	− 8.3	56.2	8 27.8	2.03	3 25	2.8	13 23	1.3
18	15 2 5	133	−17 8.3	− 6.2	55.7	9 16.8	2.05	4 32	2.7	13 56	1.5
19	15 55 44	135	−19 8.7	− 3.8	55.2	10 6.3	2.07	5 34	2.5	14 35	1.8
20	16 49 37	135	−20 9.6	− 1.3	54.8	10 56.1	2.07	6 31	2.3	15 20	2.0
21	17 43 9	133	−20 9.3	+ 1.3	54.5	11 45.6	2.05	7 22	2.0	16 10	2.2
22	18 35 46	130	−19 9.9	+ 3.6	54.2	12 34.1	2.00	8 6	1.7	17 6	2.4
23	19 26 58	126	−17 17.0	+ 5.7	54.1	13 21.3	1.93	8 42	1.4	18 5	2.5
24	20 16 34	122	−14 38.3	+ 7.5	54.0	14 6.8	1.87	9 14	1.3	19 6	2.6
25	21 4 40	119	−11 22.3	+ 8.8	54.0	14 50.8	1.81	9 42	1.1	20 8	2.6
26	21 51 40	117	− 7 37.7	+ 9.8	54.2	15 33.8	1.78	10 6	1.0	21 11	2.6
27	22 38 8	116	− 3 33.0	+10.5	54.5	16 16.2	1.77	10 29	0.9	22 14	2.6
28	23 24 48	118	+ 0 43.8	+10.8	55.0	16 58.8	1.79	10 50	0.9	23 18	2.7
29	0 12 33	121	+ 5 3.9	+10.8	55.7	17 42.5	1.86	11 13	1.0	— —	—
30	1 2 18	128	+ 9 17.4	+10.3	56.5	18 28.2	1.96	11 37	1.1	0 24	2.8
31	1 54 59	136	+13 11.9	+ 9.2	57.4	19 16.8	2.10	12 4	1.2	1 32	2.9

Phasen des Mondes

1938		Welt-Zeit h m		1938		Welt-Zeit h m	
Jan.	1	18 58.2	Neumond	Juli	4	13 47.0	Erstes Viertel
	9	14 12.9	Erstes Viertel		12	15 4.5	Vollmond
	16	5 53.3	Vollmond		20	12 18.6	Letztes Viertel
	23	8 8.9	Letztes Viertel		27	3 53.5	Neumond
	31	13 34.9	Neumond	Aug.	3	1 59.8	Erstes Viertel
Febr.	8	0 32.5	Erstes Viertel		11	5 56.8	Vollmond
	14	17 14.4	Vollmond		18	20 30.2	Letztes Viertel
	22	4 24.1	Letztes Viertel		25	11 17.3	Neumond
März	2	5 39.9	Neumond	Sept.	1	17 28.1	Erstes Viertel
	9	8 35.3	Erstes Viertel		9	20 8.1	Vollmond
	16	5 15.1	Vollmond		17	3 12.0	Letztes Viertel
	24	1 6.0	Letztes Viertel		23	20 33.6	Neumond
	31	18 51.9	Neumond	Okt.	1	11 45.0	Erstes Viertel
April	7	15 9.9	Erstes Viertel		9	9 37.0	Vollmond
	14	18 20.8	Vollmond		16	9 24.0	Letztes Viertel
	22	20 14.3	Letztes Viertel		23	8 42.2	Neumond
	30	5 27.6	Neumond		31	7 44.7	Erstes Viertel
Mai	6	21 23.8	Erstes Viertel	Nov.	7	22 23.4	Vollmond
	14	8 38.9	Vollmond		14	16 20.0	Letztes Viertel
	22	12 35.7	Letztes Viertel		22	0 4.7	Neumond
	29	13 59.6	Neumond		30	3 59.4	Erstes Viertel
Juni	5	4 32.4	Erstes Viertel	Dez.	7	10 22.1	Vollmond
	12	23 47.0	Vollmond		14	1 16.6	Letztes Viertel
	21	1 51.6	Letztes Viertel		21	18 6.7	Neumond
	27	21 10.0	Neumond		29	22 53.2	Erstes Viertel

Mond in Erdnähe

1938		Welt-Zeit h
Jan.	15	2
Febr.	12	6
März	11	8
April	5	4
Mai	2	13
Mai	30	17
Juni	28	1
Juli	26	11
Aug.	23	17
Sept.	20	12
Okt.	16	8
Nov.	11	4
Dez.	9	1

Mond in Erdferne

1938		Welt-Zeit h
Jan.	27	6
Febr.	24	1
März	23	21
April	20	17
Mai	18	9
Juni	14	18
Juli	11	21
Aug.	8	3
Sept.	4	17
Okt.	2	11
Okt.	30	7
Nov.	27	3
Dez.	24	19

Tag		0ʰ Welt-Zeit: Scheinbare Rektaszension		0ʰ Welt-Zeit: Scheinbare Deklination		0ʰ Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1938		h m s	m s	° ′ ″	′ ″			h m
Jan.	0	18 29 3.20	5 42.72	−20 34 41.8	7 57.0	9.828 468	1 566	11 48.3
	1	18 23 20.48	5 23.14	20 26 44.8	6 24.5	9.830 034	3 397	11 38.8
	2	18 17 57.34	4 54.89	20 20 20.3	4 44.9	9.833 431	5 047	11 29.8
	3	18 13 2.45	4 19.96	20 15 35.4	3 0.4	9.838 478	6 477	11 21.2
	4	18 8 42.49	3 40.46	20 12 35.0	1 14.7	9.844 955	7 666	11 13.3
	5	18 5 2.03	2 58.32	20 11 20.3	0 29.4	9.852 621	8 612	11 6.0
	6	18 2 3.71	2 15.22	−20 11 49.7	2 8.3	9.861 233	9 329	10 59.5
	7	17 59 48.49	1 32.52	20 13 58.0	3 39.6	9.870 562	9 837	10 53.6
	8	17 58 15.97	0 51.22	20 17 37.6	5 1.0	9.880 399	10 163	10 48.5
	9	17 57 24.75	0 11.99	20 22 38.6	6 11.3	9.890 562	10 334	10 44.0
	10	17 57 12.76	0 24.75	20 28 49.9	7 9.8	9.900 896	10 380	10 40.1
	11	17 57 37.51	0 58.80	20 35 59.7	7 56.0	9.911 276	10 323	10 36.9
	12	17 58 36.31	1 30.10	−20 43 55.7	8 30.6	9.921 599	10 188	10 34.2
	13	18 0 6.41	1 58.73	20 52 26.3	8 53.7	9.931 787	9 992	10 31.9
	14	18 2 5.14	2 24.76	21 1 20.0	9 6.1	9.941 779	9 752	10 30.2
	15	18 4 29.90	2 48.39	21 10 26.1	9 8.7	9.951 531	9 479	10 28.8
	16	18 7 18.29	3 9.80	21 19 34.8	9 2.1	9.961 010	9 185	10 27.8
	17	18 10 28.09	3 29.15	21 28 36.9	8 47.4	9.970 195	8 877	10 27.2
	18	18 13 57.24	3 46.68	−21 37 24.3	8 25.2	9.979 072	8 562	10 26.9
	19	18 17 43.92	4 2.51	21 45 49.5	7 56.6	9.987 634	8 244	10 26.8
	20	18 21 46.43	4 16.85	21 53 46.1	7 21.8	9.995 878	7 928	10 27.0
	21	18 26 3.28	4 29.82	22 1 7.9	6 41.7	0.003 806	7 617	10 27.5
	22	18 30 33.10	4 41.56	22 7 49.6	5 57.1	0.011 423	7 310	10 28.1
	23	18 35 14.66	4 52.21	22 13 46.7	5 8.3	0.018 733	7 011	10 28.9
	24	18 40 6.87	5 1.89	−22 18 55.0	4 15.6	0.025 744	6 722	10 29.9
	25	18 45 8.76	5 10.68	22 23 10.6	3 19.8	0.032 466	6 441	10 31.1
	26	18 50 19.44	5 18.66	22 26 30.4	2 20.9	0.038 907	6 169	10 32.4
	27	18 55 38.10	5 25.94	22 28 51.3	1 19.6	0.045 076	5 906	10 33.8
	28	19 1 4.04	5 32.58	22 30 10.9	0 15.8	0.050 982	5 654	10 35.4
	29	19 6 36.62	5 38.63	22 30 26.7	0 50.0	0.056 636	5 410	10 37.0
	30	19 12 15.25	5 44.16	−22 29 36.7	1 57.7	0.062 046	5 176	10 38.7
	31	19 17 59.41	5 49.19	22 27 39.0	3 6.9	0.067 222	4 949	10 40.6
Febr.	1	19 23 48.60	5 53.81	22 24 32.1	4 17.7	0.072 171	4 732	10 42.5
	2	19 29 42.41	5 58.03	22 20 14.4	5 29.6	0.076 903	4 522	10 44.5
	3	19 35 40.44	6 1.91	22 14 44.8	6 42.9	0.081 425	4 319	10 46.6
	4	19 41 42.35	6 5.45	22 8 1.9	7 57.1	0.085 744	4 123	10 48.7
	5	19 47 47.80	6 8.70	−22 0 4.8	9 12.4	0.089 867	3 934	10 50.9
	6	19 53 56.50	6 11.69	21 50 52.4	10 28.4	0.093 801	3 751	10 53.1
	7	20 0 8.19	6 14.42	21 40 24.0	11 45.1	0.097 552	3 574	10 55.4
	8	20 6 22.61	6 16.96	21 28 38.9	13 2.7	0.101 126	3 400	10 57.7
	9	20 12 39.57	6 19.30	21 15 36.2	14 20.6	0.104 526	3 233	11 0.0
	10	20 18 58.87		−21 1 15.6		0.107 759		11 2.4

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938	h m s	m s	° ′ ″	′ ″			h m
Febr. 10	20 18 58.87	6 21.45	−21 1 15.6	15 39.3	0.107 759	3 069	11 2.4
11	20 25 20.32	6 23.45	20 45 36.3	16 58.5	0.110 828	2 909	11 4.9
12	20 31 43.77	6 25.31	20 28 37.8	18 18.1	0.113 737	2 751	11 7.3
13	20 38 9.08	6 27.06	20 10 19.7	19 38.1	0.116 488	2 597	11 9.8
14	20 44 36.14	6 28.68	19 50 41.6	20 58.4	0.119 085	2 444	11 12.4
15	20 51 4.82	6 30.23	19 29 43.2	22 19.0	0.121 529	2 293	11 14.9
16	20 57 35.05	6 31.68	−19 7 24.2	23 39.9	0.123 822	2 144	11 17.5
17	21 4 6.73	6 33.08	18 43 44.3	25 1.2	0.125 966	1 993	11 20.1
18	21 10 39.81	6 34.43	18 18 43.1	26 22.5	0.127 959	1 844	11 22.7
19	21 17 14.24	6 35.72	17 52 20.6	27 43.9	0.129 803	1 694	11 25.4
20	21 23 49.96	6 36.98	17 24 36.7	29 5.6	0.131 497	1 542	11 28.0
21	21 30 26.94	6 38.22	16 55 31.1	30 27.3	0.133 039	1 388	11 30.7
22	21 37 5.16	6 39.47	−16 25 3.8	31 48.9	0.134 427	1 232	11 33.4
23	21 43 44.63	6 40.69	15 53 14.9	33 10.7	0.135 659	1 072	11 36.1
24	21 50 25.32	6 41.92	15 20 4.2	34 32.3	0.136 731	909	11 38.9
25	21 57 7.24	6 43.18	14 45 31.9	35 53.6	0.137 640	740	11 41.7
26	22 3 50.42	6 44.44	14 9 38.3	37 14.8	0.138 380	567	11 44.5
27	22 10 34.86	6 45.75	13 32 23.5	38 35.7	0.138 947	385	11 47.3
28	22 17 20.61	6 47.06	−12 53 47.8	39 56.1	0.139 332	196	11 50.1
März 1	22 24 7.67	6 48.41	12 13 51.7	41 15.9	0.139 528	−2	11 53.0
2	22 30 56.08	6 49.79	11 32 35.8	42 34.9	0.139 526	206	11 55.9
3	22 37 45.87	6 51.19	10 50 0.9	43 53.1	0.139 320	426	11 58.8
4	22 44 37.06	6 52.59	10 6 7.8	45 10.0	0.138 894	656	12 1.7
5	22 51 29.65	6 54.03	9 20 57.8	46 25.5	0.138 238	900	12 4.6
6	22 58 23.68	6 55.44	− 8 34 32.3	47 39.2	0.137 338	1 159	12 7.6
7	23 5 19.12	6 56.81	7 46 53.1	48 50.8	0.136 179	1 435	12 10.6
8	23 12 15.93	6 58.13	6 58 2.3	49 59.6	0.134 744	1 727	12 13.6
9	23 19 14.06	6 59.35	6 8 2.7	51 5.5	0.133 017	2 040	12 16.7
10	23 26 13.41	7 0.44	5 16 57.2	52 7.6	0.130 977	2 372	12 19.8
11	23 33 13.85	7 1.33	4 24 49.6	53 5.2	0.128 605	2 728	12 22.8
12	23 40 15.18	7 1.97	− 3 31 44.4	53 57.6	0.125 877	3 105	12 25.9
13	23 47 17.15	7 2.29	2 37 46.8	54 43.8	0.122 772	3 506	12 29.0
14	23 54 19.44	7 2.19	1 43 3.0	55 23.0	0.119 266	3 933	12 32.1
15	0 1 21.63	7 1.59	− 0 47 40.0	55 53.9	0.115 333	4 382	12 35.2
16	0 8 23.22	7 0.38	+ 0 8 13.9	56 15.7	0.110 951	4 856	12 38.3
17	0 15 23.60	6 58.44	1 4 29.6	56 27.1	0.106 095	5 352	12 41.4
18	0 22 22.04	6 55.65	+ 2 0 56.7	56 26.9	0.100 743	5 867	12 44.4
19	0 29 17.69	6 51.91	2 57 23.6	56 14.3	0.094 876	6 401	12 47.3
20	0 36 9.60	6 47.08	3 53 37.9	55 48.1	0.088 475	6 948	12 50.2
21	0 42 56.68	6 41.04	4 49 26.0	55 7.7	0.081 527	7 503	12 53.0
22	0 49 37.72	6 33.73	5 44 33.7	54 12.4	0.074 024	8 063	12 55.7
23	0 56 11.45		+ 6 38 46.1		0.065 961		12 58.2

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938	h m s	m s	° ′ ″	′ ″			h m
März 23	0 56 11.45	6 25.02	+ 6 38 46.1	53 1.9	0.065 961	8 619	12 58.2
24	1 2 36.47	6 14.87	7 31 48.0	51 36.5	0.057 342	9 165	13 0.6
25	1 8 51.34	6 3.27	8 23 24.5	49 56.1	0.048 177	9 696	13 2.8
26	1 14 54.61	5 50.19	9 13 20.6	48 1.4	0.038 481	10 205	13 4.8
27	1 20 44.80	5 35.63	10 1 22.0	45 53.2	0.028 276	10 683	13 6.6
28	1 26 20.43	5 19.68	10 47 15.2	43 32.5	0.017 593	11 128	13 8.1
29	1 31 40.11	5 2.36	+11 30 47.7	41 0.3	0.006 465	11 532	13 9.4
30	1 36 42.47	4 43.76	12 11 48.0	38 18.1	9.994 933	11 891	13 10.3
31	1 41 26.23	4 23.97	12 50 6.1	35 26.5	9.983 042	12 200	13 10.9
April 1	1 45 50.20	4 3.10	13 25 32.6	32 27.0	9.970 842	12 456	13 11.2
2	1 49 53.30	3 41.27	13 57 59.6	29 20.4	9.958 386	12 658	13 11.1
3	1 53 34.57	3 18.59	14 27 20.0	26 7.9	9.945 728	12 799	13 10.6
4	1 56 53.16	2 55.17	+14 53 27.9	22 50.1	9.932 929	12 880	13 9.8
5	1 59 48.33	2 31.19	15 16 18.0	19 27.7	9.920 049	12 895	13 8.5
6	2 2 19.52	2 6.79	15 35 45.7	16 1.5	9.907 154	12 843	13 6.9
7	2 4 26.31	1 42.14	15 51 47.2	12 32.4	9.894 311	12 723	13 4.8
8	2 6 8.45	1 17.40	16 4 19.6	9 0.7	9.881 588	12 530	13 2.4
9	2 7 25.85	0 52.85	16 13 20.3	5 27.7	9.869 058	12 263	12 59.5
10	2 8 18.70	0 28.64	+16 18 48.0	1 54.4	9.856 795	11 920	12 56.2
11	2 8 47.34	0 5.09	16 20 42.4	1 38.0	9.844 875	11 499	12 52.6
12	2 8 52.43	0 17.57	16 19 4.4	5 8.1	9.833 376	10 999	12 48.5
13	2 8 34.86	0 39.06	16 13 56.3	8 33.9	9.822 377	10 420	12 44.1
14	2 7 55.80	0 59.05	16 5 22.4	11 52.9	9.811 957	9 765	12 39.4
15	2 6 56.75	1 17.29	15 53 29.5	15 3.4	9.802 192	9 037	12 34.3
16	2 5 39.46	1 33.49	+15 38 26.1	18 2.4	9.793 155	8 237	12 28.9
17	2 4 5.97	1 47.40	15 20 23.7	20 47.0	9.784 918	7 376	12 23.3
18	2 2 18.57	1 58.82	14 59 36.7	23 14.7	9.777 542	6 460	12 17.5
19	2 0 19.75	2 7.58	14 36 22.0	25 22.7	9.771 082	5 500	12 11.5
20	1 58 12.17	2 13.56	14 10 59.3	27 8.8	9.765 582	4 505	12 5.4
21	1 55 58.61	2 16.75	13 43 50.5	28 31.0	9.761 077	3 493	11 59.2
22	1 53 41.86	2 17.15	+13 15 19.5	29 28.0	9.757 584	2 470	11 53.0
23	1 51 24.71	2 14.86	12 45 51.5	29 59.1	9.755 114	1 455	11 46.8
24	1 49 9.85	2 10.02	12 15 52.4	30 4.3	9.753 659	458	11 40.7
25	1 46 59.83	2 2.85	11 45 48.1	29 44.3	9.753 201	508	11 34.7
26	1 44 56.98	1 53.59	11 16 3.8	29 0.4	9.753 709	1 435	11 28.8
27	1 43 3.39	1 42.47	10 47 3.4	27 54.4	9.755 144	2 311	11 23.1
28	1 41 20.92	1 29.81	+10 19 9.0	26 28.8	9.757 455	3 130	11 17.6
29	1 39 51.11	1 15.88	9 52 40.2	24 45.9	9.760 585	3 889	11 12.2
30	1 38 35.23	1 0.94	9 27 54.3	22 48.5	9.764 474	4 585	11 7.1
Mai 1	1 37 34.29	0 45.26	9 5 5.8	20 39.2	9.769 059	5 215	11 2.3
2	1 36 49.03	0 29.07	8 44 26.6	18 20.8	9.774 274	5 782	10 57.8
3	1 36 19.96		+ 8 26 5.8		9.780 056		10 53.5

Tag		0ʰ Welt-Zeit: Scheinbare Rektaszension		0ʰ Welt-Zeit: Scheinbare Deklination		0ʰ Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1938		h m s	m s	° ′ ″	′ ″			h m
Mai	3	1 36 19.96	0 12.57	+ 8 26 5.8	15 55.7	9.780 056	6 285	10 53.5
	4	1 36 7.39	0 4.07	8 10 10.1	13 25.9	9.786 341	6 729	10 49.5
	5	1 36 11.46	0 20.66	7 56 44.2	10 53.6	9.793 070	7 116	10 45.7
	6	1 36 32.12	0 37.14	7 45 50.6	8 20.4	9.800 186	7 451	10 42.3
	7	1 37 9.26	0 53.37	7 37 30.2	5 48.1	9.807 637	7 736	10 39.1
	8	1 38 2.63	1 9.28	7 31 42.1	3 17.5	9.815 373	7 977	10 36.1
	9	1 39 11.91	1 24.83	+ 7 28 24.6	0 49.6	9.823 350	8 179	10 33.5
	10	1 40 36.74	1 39.99	7 27 35.0	1 34.6	9.831 529	8 343	10 31.1
	11	1 42 16.73	1 54.72	7 29 9.6	3 54.6	9.839 872	8 475	10 28.9
	12	1 44 11.45	2 9.03	7 33 4.2	6 10.1	9.848 347	8 579	10 27.0
	13	1 46 20.48	2 22.90	7 39 14.3	8 20.4	9.856 926	8 656	10 25.3
	14	1 48 43.38	2 36.38	7 47 34.7	10 25.6	9.865 582	8 711	10 23.8
	15	1 51 19.76	2 49.45	+ 7 58 0.3	12 25.6	9.874 293	8 745	10 22.6
	16	1 54 9.21	3 2.14	8 10 25.9	14 20.0	9.883 038	8 763	10 21.5
	17	1 57 11.35	3 14.53	8 24 45.9	16 9.1	9.891 801	8 764	10 20.7
	18	2 0 25.88	3 26.59	8 40 55.0	17 52.9	9.900 565	8 752	10 20.1
	19	2 3 52.47	3 38.37	8 58 47.9	19 31.3	9.909 317	8 729	10 19.7
	20	2 7 30.84	3 49.93	9 18 19.2	21 4.4	9.918 046	8 692	10 19.5
	21	2 11 20.77	4 1.28	+ 9 39 23.6	22 32.2	9.926 738	8 647	10 19.5
	22	2 15 22.05	4 12.48	10 1 55.8	23 54.8	9.935 385	8 593	10 19.6
	23	2 19 34.53	4 23.56	10 25 50.6	25 12.5	9.943 978	8 529	10 20.0
	24	2 23 58.09	4 34.56	10 51 3.1	26 24.8	9.952 507	8 459	10 20.5
	25	2 28 32.65	4 45.50	11 17 27.9	27 32.1	9.960 966	8 379	10 21.2
	26	2 33 18.15	4 56.45	11 45 0.0	28 34.3	9.969 345	8 293	10 22.1
	27	2 38 14.60	5 7.41	+12 13 34.3	29 31.5	9.977 638	8 198	10 23.2
	28	2 43 22.01	5 18.45	12 43 5.8	30 23.1	9.985 836	8 096	10 24.4
	29	2 48 40.46	5 29.58	13 13 28.9	31 9.6	9.993 932	7 984	10 25.9
	30	2 54 10.04	5 40.83	13 44 38.5	31 50.6	0.001 916	7 865	10 27.5
	31	2 59 50.87	5 52.23	14 16 29.1	32 25.8	0.009 781	7 734	10 29.3
Juni	1	3 5 43.10	6 3.81	14 48 54.9	32 55.2	0.017 515	7 595	10 31.4
	2	3 11 46.91	6 15.60	+15 21 50.1	33 18.1	0.025 110	7 443	10 33.6
	3	3 18 2.51	6 27.57	15 55 8.2	33 34.5	0.032 553	7 277	10 36.0
	4	3 24 30.08	6 39.77	16 28 42.7	33 44.1	0.039 830	7 100	10 38.6
	5	3 31 9.85	6 52.19	17 2 26.8	33 45.9	0.046 930	6 906	10 41.4
	6	3 38 2.04	7 4.77	17 36 12.7	33 39.9	0.053 836	6 695	10 44.4
	7	3 45 6.81	7 17.54	18 9 52.6	33 25.1	0.060 531	6 467	10 47.7
	8	3 52 24.35	7 30.41	+18 43 17.7	33 1.2	0.066 998	6 218	10 51.1
	9	3 59 54.76	7 43.35	19 16 18.9	32 27.7	0.073 216	5 949	10 54.8
	10	4 7 38.11	7 56.24	19 48 46.6	31 43.5	0.079 165	5 658	10 58.7
	11	4 15 34.35	8 9.02	20 20 30.1	30 48.4	0.084 823	5 343	11 2.8
	12	4 23 43.37	8 21.55	20 51 18.5	29 41.8	0.090 166	5 006	11 7.1
	13	4 32 4.92		+21 21 0.3		0.095 172		11 11.6

Tag		0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938		h m s	m s	° ′ ″	′ ″			h m
Juni	13	4 32 4.92	8 33.69	+21 21 0.3	28 23.4	0.095 172	4 644	11 11.6
	14	4 40 38.61	8 45.28	21 49 23.7	26 52.7	0.099 816	4 259	11 16.3
	15	4 49 23.89	8 56.15	22 16 16.4	25 9.9	0.104 075	3 851	11 21.3
	16	4 58 20.04	9 6.12	22 41 26.3	23 15.0	0.107 926	3 425	11 26.4
	17	5 7 26.16	9 15.02	23 4 41.3	21 8.8	0.111 351	2 980	11 31.6
	18	5 16 41.18	9 22.67	23 25 50.1	18 51.8	0.114 331	2 519	11 37.0
	19	5 26 3.85	9 28.92	+23 44 41.9	16 25.3	0.116 850	2 050	11 42.5
	20	5 35 32.77	9 33.65	24 1 7.2	13 50.6	0.118 900	1 573	11 48.1
	21	5 45 6.42	9 36.79	24 14 57.8	11 9.3	0.120 473	1 094	11 53.8
	22	5 54 43.21	9 38.26	24 26 7.1	8 23.2	0.121 567	618	11 59.5
	23	6 4 21.47	9 38.09	24 34 30.3	5 34.2	0.122 185	151	12 5.2
	24	6 13 59.56	9 36.27	24 40 4.5	2 44.1	0.122 336	307	12 10.9
	25	6 23 35.83	9 32.92	+24 42 48.6	0 5.1	0.122 029	748	12 16.6
	26	6 33 8.75	9 28.13	24 42 43.5	2 51.9	0.121 281	1 171	12 22.2
	27	6 42 36.88	9 22.03	24 39 51.6	5 34.7	0.120 110	1 575	12 27.7
	28	6 51 58.91	9 14.77	24 34 16.9	8 12.3	0.118 535	1 955	12 33.0
	29	7 1 13.68	9 6.47	24 26 4.6	10 43.5	0.116 580	2 315	12 38.3
	30	7 10 20.15	8 57.34	24 15 21.1	13 7.8	0.114 265	2 649	12 43.4
Juli	1	7 19 17.49	8 47.50	+24 2 13.3	15 24.3	0.111 616	2 962	12 48.3
	2	7 28 4.99	8 37.09	23 46 49.0	17 32.8	0.108 654	3 252	12 53.1
	3	7 36 42.08	8 26.24	23 29 16.2	19 33.1	0.105 402	3 522	12 57.7
	4	7 45 8.32	8 15.07	23 9 43.1	21 25.0	0.101 880	3 771	13 2.1
	5	7 53 23.39	8 3.68	22 48 18.1	23 8.8	0.098 109	4 002	13 6.3
	6	8 1 27.07	7 52.15	22 25 9.3	24 44.5	0.094 107	4 217	13 10.4
	7	8 9 19.22	7 40.58	+22 0 24.8	26 12.1	0.089 890	4 415	13 14.2
	8	8 16 59.80	7 28.97	21 34 12.7	27 32.2	0.085 475	4 600	13 17.8
	9	8 24 28.77	7 17.40	21 6 40.5	28 44.9	0.080 875	4 772	13 21.3
	10	8 31 46.17	7 5.93	20 37 55.6	29 50.6	0.076 103	4 933	13 24.5
	11	8 38 52.10	6 54.55	20 8 5.0	30 49.4	0.071 170	5 085	13 27.6
	12	8 45 46.65	6 43.29	19 37 15.6	31 41.8	0.066 085	5 226	13 30.4
	13	8 52 29.94	6 32.15	+19 5 33.8	32 28.0	0.060 859	5 362	13 33.1
	14	8 59 2.09	6 21.15	18 33 5.8	33 8.1	0.055 497	5 490	13 35.6
	15	9 5 23.24	6 10.29	17 59 57.7	33 42.8	0.050 007	5 614	13 37.9
	16	9 11 33.53	5 59.54	17 26 14.9	34 11.7	0.044 393	5 731	13 40.0
	17	9 17 33.07	5 48.92	16 52 3.2	34 35.4	0.038 662	5 846	13 42.0
	18	9 23 21.99	5 38.41	16 17 27.8	34 54.1	0.032 816	5 957	13 43.8
	19	9 29 0.40	5 27.96	+15 42 33.7	35 7.8	0.026 859	6 065	13 45.4
	20	9 34 28.36	5 17.60	15 7 25.9	35 16.7	0.020 794	6 172	13 46.8
	21	9 39 45.96	5 7.28	14 32 9.2	35 20.7	0.014 622	6 276	13 48.0
	22	9 44 53.24	4 56.98	13 56 48.5	35 20.1	0.008 346	6 379	13 49.1
	23	9 49 50.22	4 46.66	13 21 28.4	35 15.1	0.001 967	6 481	13 50.1
	24	9 54 36.88		+12 46 13.3		9.995 486		13 50.8

Tag		0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938		h m s	m s	° ′ ″	′ ″			h m
Juli	24	9 54 36.88	4 36.33	+12 46 13.3	35 5.1	9.995 486	6 582	13 50.8
	25	9 59 13.21	4 25.91	12 11 8.2	34 50.6	9.988 904	6 683	13 51.3
	26	10 3 39.12	4 15.39	11 36 17.6	34 31.4	9.982 221	6 782	13 51.7
	27	10 7 54.51	4 4.74	11 1 46.2	34 7.4	9.975 439	6 879	13 51.9
	28	10 11 59.25	3 53.90	10 27 38.8	33 38.4	9.968 560	6 977	13 52.0
	29	10 15 53.15	3 42.88	9 54 0.4	33 4.6	9.961 583	7 070	13 51.8
	30	10 19 36.03	3 31.59	+9 20 55.8	32 25.5	9.954 513	7 163	13 51.5
	31	10 23 7.62	3 19.99	8 48 30.3	31 40.8	9.947 350	7 252	13 51.0
Aug.	1	10 26 27.61	3 8.08	8 16 49.5	30 50.6	9.940 098	7 336	13 50.2
	2	10 29 35.69	2 55.79	7 45 58.9	29 54.6	9.932 762	7 414	13 49.3
	3	10 32 31.48	2 43.10	7 16 4.3	28 52.4	9.925 348	7 487	13 48.2
	4	10 35 14.58	2 29.93	6 47 11.9	27 43.6	9.917 861	7 549	13 46.8
	5	10 37 44.51	2 16.27	+6 19 28.3	26 27.8	9.910 312	7 601	13 45.3
	6	10 40 0.78	2 2.08	5 53 0.5	25 4.9	9.902 711	7 641	13 43.5
	7	10 42 2.86	1 47.33	5 27 55.6	23 34.2	9.895 070	7 664	13 41.4
	8	10 43 50.19	1 31.96	5 4 21.4	21 55.5	9.887 406	7 667	13 39.1
	9	10 45 22.15	1 16.00	4 42 25.9	20 8.2	9.879 739	7 649	13 36.6
	10	10 46 38.15	0 59.40	4 22 17.7	18 12.0	9.872 090	7 603	13 33.7
	11	10 47 37.55	0 42.18	+4 4 5.7	16 6.6	9.864 487	7 525	13 30.6
	12	10 48 19.73	0 24.38	3 47 59.1	13 51.6	9.856 962	7 409	13 27.2
	13	10 48 44.11	0 6.02	3 34 7.5	11 27.0	9.849 553	7 251	13 23.6
	14	10 48 50.13	0 12.80	3 22 40.5	8 52.7	9.842 302	7 043	13 19.6
	15	10 48 37.33	0 31.99	3 13 47.8	6 8.9	9.835 259	6 778	13 15.2
	16	10 48 5.34	0 51.40	3 7 38.9	3 16.1	9.828 481	6 451	13 10.6
	17	10 47 13.94	1 10.83	+3 4 22.8	0 15.3	9.822 030	6 053	13 5.6
	18	10 46 3.11	1 30.04	3 4 7.5	2 52.5	9.815 977	5 578	13 0.3
	19	10 44 33.07	1 48.76	3 7 0.0	6 5.4	9.810 399	5 021	12 54.8
	20	10 42 44.31	2 6.62	3 13 5.4	9 21.2	9.805 378	4 375	12 48.9
	21	10 40 37.69	2 23.24	3 22 26.6	12 37.0	9.801 003	3 639	12 42.7
	22	10 38 14.45	2 38.21	3 35 3.6	15 49.4	9.797 364	2 810	12 36.2
	23	10 35 36.24	2 51.05	+3 50 53.0	18 54.6	9.794 554	1 891	12 29.6
	24	10 32 45.19	3 1.33	4 9 47.6	21 48.4	9.792 663	888	12 22.7
	25	10 29 43.86	3 8.57	4 31 36.0	24 26.2	9.791 775	191	12 15.7
	26	10 26 35.29	3 12.37	4 56 2.2	26 43.7	9.791 966	1 334	12 8.6
	27	10 23 22.92	3 12.40	5 22 45.9	28 36.8	9.793 300	2 524	12 1.5
	28	10 20 10.52	3 8.39	5 51 22.7	30 1.6	9.795 824	3 741	11 54.4
	29	10 17 2.13	3 0.22	+6 21 24.3	30 55.4	9.799 565	4 963	11 47.4
	30	10 14 1.91	2 47.87	6 52 19.7	31 16.5	9.804 528	6 170	11 40.6
	31	10 11 14.04	2 31.46	7 23 36.2	31 4.0	9.810 698	7 336	11 34.0
Sept.	1	10 8 42.58	2 11.23	7 54 40.2	30 18.2	9.818 034	8 440	11 27.7
	2	10 6 31.35	1 47.53	8 24 58.4	29 0.3	9.826 474	9 464	11 21.8
	3	10 4 43.82		+8 53 58.7		9.835 938		11 16.3

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		0ʰ Welt-Zeit: Scheinbare Deklination		0ʰ Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1938	h m s	m s	° ′ ″	′ ″			h m
Sept. 3	10 4 43.82	1 20.81	+ 8 53 58.7	27 12.4	9.835 938	10 392	11 16.3
4	10 3 23.01	0 51.60	9 21 11.1	24 56.9	9.846 330	11 207	11 11.3
5	10 2 31.41	0 20.42	9 46 8.0	22 17.5	9.857 537	11 904	11 6.7
6	10 2 10.99	0 12.12	10 8 25.5	19 16.9	9.869 441	12 475	11 2.7
7	10 2 23.11	0 45.49	10 27 42.4	15 58.9	9.881 916	12 918	10 59.2
8	10 3 8.60	1 19.10	10 43 41.3	12 26.7	9.894 834	13 236	10 56.3
9	10 4 27.70	1 52.47	+10 56 8.0	8 43.6	9.908 070	13 431	10 53.9
10	10 6 20.17	2 25.10	11 4 51.6	4 52.8	9.921 501	13 505	10 52.1
11	10 8 45.27	2 56.56	11 9 44.4	0 57.4	9.935 006	13 471	10 50.8
12	10 11 41.83	3 26.49	11 10 41.8	2 59.9	9.948 477	13 332	10 50.0
13	10 15 8.32	3 54.57	11 7 41.9	6 56.2	9.961 809	13 101	10 49.7
14	10 19 2.89	4 20.54	11 0 45.7	10 48.6	9.974 910	12 788	10 49.9
15	10 23 23.43	4 44.20	+10 49 57.1	14 34.9	9.987 698	12 402	10 50.5
16	10 28 7.63	5 5.44	10 35 22.2	18 12.9	0.000 100	11 958	10 51.5
17	10 33 13.07	5 24.22	10 17 9.3	21 40.1	0.012 058	11 464	10 52.8
18	10 38 37.29	5 40.51	9 55 29.2	24 55.3	0.023 522	10 933	10 54.4
19	10 44 17.80	5 54.38	9 30 33.9	27 56.7	0.034 455	10 377	10 56.2
20	10 50 12.18	6 5.96	9 2 37.2	30 43.8	0.044 832	9 804	10 58.3
21	10 56 18.14	6 15.39	+ 8 31 53.4	33 15.6	0.054 636	9 226	11 0.5
22	11 2 33.53	6 22.84	7 58 37.8	35 31.8	0.063 862	8 646	11 2.9
23	11 8 56.37	6 28.53	7 23 6.0	37 33.0	0.072 508	8 077	11 5.4
24	11 15 24.90	6 32.67	6 45 33.0	39 19.2	0.080 585	7 519	11 7.9
25	11 21 57.57	6 35.43	6 6 13.8	40 50.8	0.088 104	6 980	11 10.6
26	11 28 33.00	6 37.07	5 25 23.0	42 9.2	0.095 084	6 460	11 13.2
27	11 35 10.07	6 37.73	+ 4 43 13.8	43 14.8	0.101 544	5 964	11 15.9
28	11 41 47.80	6 37.62	3 59 59.0	44 8.9	0.107 508	5 492	11 18.6
29	11 48 25.42	6 36.85	3 15 50.1	44 52.1	0.113 000	5 043	11 21.3
30	11 55 2.27	6 35.61	2 30 58.0	45 25.7	0.118 043	4 620	11 24.0
Okt. 1	12 1 37.88	6 33.97	1 45 32.3	45 50.6	0.122 663	4 219	11 26.6
2	12 8 11.85	6 32.08	0 59 41.7	46 7.5	0.126 882	3 842	11 29.2
3	12 14 43.93	6 29.99	+ 0 13 34.2	46 17.5	0.130 724	3 486	11 31.8
4	12 21 13.92	6 27.79	− 0 32 43.3	46 21.0	0.134 210	3 150	11 34.4
5	12 27 41.71	6 25.53	1 19 4.3	46 19.0	0.137 360	2 835	11 36.9
6	12 34 7.24	6 23.27	2 5 23.3	46 11.9	0.140 195	2 536	11 39.3
7	12 40 30.51	6 21.03	2 51 35.2	46 0.6	0.142 731	2 253	11 41.8
8	12 46 51.54	6 18.87	3 37 35.8	45 45.2	0.144 984	1 987	11 44.2
9	12 53 10.41	6 16.79	− 4 23 21.0	45 26.2	0.146 971	1 733	11 46.5
10	12 59 27.20	6 14.83	5 8 47.2	45 4.1	0.148 704	1 493	11 48.8
11	13 5 42.03	6 12.99	5 53 51.3	44 39.2	0.150 197	1 263	11 51.1
12	13 11 55.02	6 11.29	6 38 30.5	44 11.8	0.151 460	1 044	11 53.4
13	13 18 6.31	6 9.73	7 22 42.3	43 41.9	0.152 504	833	11 55.6
14	13 24 16.04		− 8 6 24.2		0.153 337		11 57.8

Tag		0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938		h m s	m s	° ′ ″	′ ″			h m
Okt.	14	13 24 16.04	6 8.31	− 8 6 24.2	43 10.0	0.153 337	631	11 57.8
	15	13 30 24.35	6 7.04	8 49 34.2	42 36.3	0.153 968	435	12 0.0
	16	13 36 31.39	6 5.93	9 32 10.5	42 0.6	0.154 403	245	12 2.2
	17	13 42 37.32	6 4.96	10 14 11.1	41 23.4	0.154 648	62	12 4.4
	18	13 48 42.28	6 4.12	10 55 34.5	40 44.5	0.154 710	$\overline{117}$	12 6.5
	19	13 54 46.40	6 3.43	11 36 19.0	40 4.4	0.154 593	293	12 8.6
	20	14 0 49.83	6 2.87	−12 16 23.4	39 22.6	0.154 300	466	12 10.7
	21	14 6 52.70	6 2.44	12 55 46.0	38 39.5	0.153 834	635	12 12.8
	22	14 12 55.14	6 2.12	13 34 25.5	37 55.3	0.153 199	803	12 14.9
	23	14 18 57.26	6 1.92	14 12 20.8	37 9.7	0.152 396	970	12 17.0
	24	14 24 59.18	6 1.82	14 49 30.5	36 22.9	0.151 426	1 136	12 19.1
	25	14 31 1.00	6 1.82	15 25 53.4	35 34.8	0.150 290	1 302	12 21.2
	26	14 37 2.82	6 1.89	−16 1 28.2	34 45.6	0.148 988	1 467	12 23.3
	27	14 43 4.71	6 2.04	16 36 13.8	33 55.0	0.147 521	1 634	12 25.4
	28	14 49 6.75	6 2.25	17 10 8.8	33 3.3	0.145 887	1 802	12 27.5
	29	14 55 9.00	6 2.50	17 43 12.1	32 10.3	0.144 085	1 973	12 29.6
	30	15 1 11.50	6 2.80	18 15 22.4	31 16.0	0.142 112	2 144	12 31.7
	31	15 7 14.30	6 3.12	18 46 38.4	30 20.6	0.139 968	2 320	12 33.8
Nov.	1	15 13 17.42	6 3.43	−19 16 59.0	29 23.7	0.137 648	2 499	12 35.9
	2	15 19 20.85	6 3.72	19 46 22.7	28 25.6	0.135 149	2 681	12 38.0
	3	15 25 24.57	6 4.00	20 14 48.3	27 26.0	0.132 468	2 868	12 40.1
	4	15 31 28.57	6 4.20	20 42 14.3	26 25.2	0.129 600	3 060	12 42.3
	5	15 37 32.77	6 4.32	21 8 39.5	25 22.9	0.126 540	3 258	12 44.4
	6	15 43 37.09	6 4.34	21 34 2.4	24 19.1	0.123 282	3 463	12 46.6
	7	15 49 41.43	6 4.23	−21 58 21.5	23 13.9	0.119 819	3 672	12 48.7
	8	15 55 45.66	6 3.93	22 21 35.4	22 7.0	0.116 147	3 891	12 50.8
	9	16 1 49.59	6 3.44	22 43 42.4	20 58.9	0.112 256	4 117	12 52.9
	10	16 7 53.03	6 2.70	23 4 41.3	19 49.1	0.108 139	4 352	12 55.0
	11	16 13 55.73	6 1.65	23 24 30.4	18 37.7	0.103 787	4 596	12 57.1
	12	16 19 57.38	6 0.28	23 43 8.1	17 24.6	0.099 191	4 851	12 59.2
	13	16 25 57.66	5 58.51	−24 0 32.7	16 10.2	0.094 340	5 116	13 1.3
	14	16 31 56.17	5 56.25	24 16 42.9	14 54.0	0.089 224	5 394	13 3.3
	15	16 37 52.42	5 53.45	24 31 36.9	13 36.4	0.083 830	5 682	13 5.3
	16	16 43 45.87	5 50.05	24 45 13.3	12 17.2	0.078 148	5 985	13 7.2
	17	16 49 35.92	5 45.92	24 57 30.5	10 56.5	0.072 163	6 300	13 9.0
	18	16 55 21.84	5 40.97	25 8 27.0	9 34.3	0.065 863	6 628	13 10.8
	19	17 1 2.81	5 35.07	−25 18 1.3	8 10.9	0.059 235	6 972	13 12.5
	20	17 6 37.88	5 28.12	25 26 12.2	6 46.0	0.052 263	7 328	13 14.1
	21	17 12 6.00	5 19.95	25 32 58.2	5 20.3	0.044 935	7 698	13 15.5
	22	17 17 25.95	5 10.39	25 38 18.5	3 53.4	0.037 237	8 082	13 16.8
	23	17 22 36.34	4 59.28	25 42 11.9	2 25.6	0.029 155	8 476	13 18.0
	24	17 27 35.62		−25 44 37.5		0.020 679		13 18.9

Tag		0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938		h m s	m s	° ′ ″	′ ″			h m
Nov.	24	17 27 35.62	4 46.39	−25 44 37.5	0 57.0	0.020 679	8 880	13 18.9
	25	17 32 22.01	4 31.51	25 45 34.5	0 31.8	0.011 799	9 291	13 19.6
	26	17 36 53.52	4 14.40	25 45 2.7	2 1.0	0.002 508	9 704	13 20.0
	27	17 41 7.92	3 54.82	25 43 1.7	3 30.4	9.992 804	10 112	13 20.1
	28	17 45 2.74	3 32.46	25 39 31.3	4 59.4	9.982 692	10 510	13 19.9
	29	17 48 35.20	3 7.12	25 34 31.9	6 28.5	9.972 182	10 886	13 19.3
	30	17 51 42.32	2 38.50	−25 28 3.4	7 56.9	9.961 296	11 226	13 18.2
Dez.	1	17 54 20.82	2 6.42	25 20 6.5	9 24.9	9.950 070	11 515	13 16.6
	2	17 56 27.24	1 30.76	25 10 41.6	10 52.4	9.938 555	11 732	13 14.5
	3	17 57 58.00	0 51.51	24 59 49.2	12 19.3	9.926 823	11 851	13 11.7
	4	17 58 49.51	0 8.84	24 47 29.9	13 46.0	9.914 972	11 848	13 8.2
	5	17 58 58.35	0 36.83	24 33 43.9	15 12.1	9.903 124	11 685	13 4.0
	6	17 58 21.52	1 24.75	−24 18 31.8	16 37.7	9.891 439	11 332	12 59.1
	7	17 56 56.77	2 13.84	24 1 54.1	18 1.8	9.880 107	10 757	12 53.3
	8	17 54 42.93	3 2.56	23 43 52.3	19 22.8	9.869 350	9 931	12 46.7
	9	17 51 40.37	3 48.98	23 24 29.5	20 38.3	9.859 419	8 836	12 39.4
	10	17 47 51.39	4 30.91	23 3 51.2	21 44.3	9.850 583	7 470	12 31.3
	11	17 43 20.48	5 6.01	22 42 6.9	22 35.1	9.843 113	5 850	12 22.6
	12	17 38 14.47	5 32.12	−22 19 31.8	23 4.7	9.837 263	4 018	12 13.3
	13	17 32 42.35	5 47.51	21 56 27.1	23 6.9	9.833 245	2 037	12 3.8
	14	17 26 54.84	5 51.19	21 33 20.2	22 36.1	9.831 208	14	11 54.1
	15	17 21 3.65	5 43.07	21 10 44.1	21 29.5	9.831 222	2 048	11 44.4
	16	17 15 20.58	5 23.94	20 49 14.6	19 47.2	9.833 270	3 977	11 34.9
	17	17 9 56.64	4 55.38	20 29 27.4	17 32.7	9.837 247	5 732	11 25.8
	18	17 5 1.26	4 19.43	−20 11 54.7	14 52.2	9.842 979	7 256	11 17.3
	19	17 0 41.83	3 38.32	19 57 2.5	11 53.8	9.850 235	8 525	11 9.4
	20	16 57 3.51	2 54.24	19 45 8.7	8 46.3	9.858 760	9 526	11 2.2
	21	16 54 9.27	2 9.04	19 36 22.4	5 37.8	9.868 286	10 274	10 55.7
	22	16 52 0.23	1 24.27	19 30 44.6	2 35.3	9.878 560	10 785	10 49.9
	23	16 50 35.96	0 41.06	19 28 9.3	0 15.8	9.889 345	11 095	10 44.9
	24	16 49 54.90	0 0.17	−19 28 25.1	2 51.6	9.900 440	11 230	10 40.6
	25	16 49 54.73	0 37.94	19 31 16.7	5 10.1	9.911 670	11 226	10 37.0
	26	16 50 32.67	1 13.06	19 36 26.8	7 10.1	9.922 896	11 110	10 33.9
	27	16 51 45.73	1 45.13	19 43 36.9	8 51.7	9.934 006	10 909	10 31.5
	28	16 53 30.86	2 14.25	19 52 28.6	10 15.1	9.944 915	10 644	10 29.5
	29	16 55 45.11	2 40.57	20 2 43.7	11 21.6	9.955 559	10 332	10 28.0
	30	16 58 25.68	3 4.29	−20 14 5.3	12 12.3	9.965 891	9 990	10 26.9
	31	17 1 29.97	3 25.62	20 26 17.6	12 48.6	9.975 881	9 629	10 26.2
	32	17 4 55.59		−20 39 6.2		9.985 510		10 25.8

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938	h m s	m s	° ′ ″	′ ″			h m
Jan. 0	18 2 7.42	5 29.45	−23 31 13.2	1 47.0	0.226 5346	3845	11 26.8
1	18 7 36.87	5 29.56	23 33 0.2	1 3.3	0.226 9191	3737	11 28.4
2	18 13 6.43	5 29.62	23 34 3.5	0 19.4	0.227 2928	3629	11 30.0
3	18 18 36.05	5 29.61	23 34 22.9	0 24.3	0.227 6557	3522	11 31.5
4	18 24 5.66	5 29.52	23 33 58.6	1 8.2	0.228 0079	3415	11 33.1
5	18 29 35.18	5 29.38	23 32 50.4	1 52.1	0.228 3494	3309	11 34.6
6	18 35 4.56	5 29.16	−23 30 58.3	2 35.9	0.228 6803	3204	11 36.2
7	18 40 33.72	5 28.89	23 28 22.4	3 19.5	0.229 0007	3100	11 37.7
8	18 46 2.61	5 28.56	23 25 2.9	4 3.0	0.229 3107	2997	11 39.2
9	18 51 31.17	5 28.16	23 20 59.9	4 46.4	0.229 6104	2895	11 40.8
10	18 56 59.33	5 27.71	23 16 13.5	5 29.4	0.229 8999	2793	11 42.3
11	19 2 27.04	5 27.20	23 10 44.1	6 12.4	0.230 1792	2693	11 43.8
12	19 7 54.24	5 26.64	−23 4 31.7	6 55.0	0.230 4485	2594	11 45.3
13	19 13 20.88	5 26.02	22 57 36.7	7 37.4	0.230 7079	2495	11 46.8
14	19 18 46.90	5 25.35	22 49 59.3	8 19.4	0.230 9574	2398	11 48.3
15	19 24 12.25	5 24.63	22 41 39.9	9 1.2	0.231 1972	2300	11 49.8
16	19 29 36.88	5 23.86	22 32 38.7	9 42.5	0.231 4272	2203	11 51.3
17	19 35 0.74	5 23.05	22 22 56.2	10 23.5	0.231 6475	2106	11 52.7
18	19 40 23.79	5 22.20	−22 12 32.7	11 4.0	0.231 8581	2008	11 54.1
19	19 45 45.99	5 21.30	22 1 28.7	11 44.1	0.232 0589	1911	11 55.6
20	19 51 7.29	5 20.37	21 49 44.6	12 23.7	0.232 2500	1813	11 57.0
21	19 56 27.66	5 19.40	21 37 20.9	13 2.7	0.232 4313	1713	11 58.4
22	20 1 47.06	5 18.39	21 24 18.2	13 41.3	0.232 6026	1614	11 59.7
23	20 7 5.45	5 17.35	21 10 36.9	14 19.3	0.232 7640	1514	12 1.1
24	20 12 22.80	5 16.29	−20 56 17.6	14 56.7	0.232 9154	1413	12 2.4
25	20 17 39.09	5 15.18	20 41 20.9	15 33.5	0.233 0567	1311	12 3.7
26	20 22 54.27	5 14.06	20 25 47.4	16 9.8	0.233 1878	1209	12 5.0
27	20 28 8.33	5 12.91	20 9 37.6	16 45.3	0.233 3087	1107	12 6.3
28	20 33 21.24	5 11.75	19 52 52.3	17 20.2	0.233 4194	1004	12 7.6
29	20 38 32.99	5 10.55	19 35 32.1	17 54.5	0.233 5198	900	12 8.8
30	20 43 43.54	5 9.34	−19 17 37.6	18 28.0	0.233 6098	798	12 10.1
31	20 48 52.88	5 8.13	18 59 9.6	19 1.0	0.233 6896	693	12 11.3
Febr. 1	20 54 1.01	5 6.90	18 40 8.6	19 33.1	0.233 7589	589	12 12.4
2	20 59 7.91	5 5.65	18 20 35.5	20 4.6	0.233 8178	485	12 13.6
3	21 4 13.56	5 4.42	18 0 30.9	20 35.2	0.233 8663	380	12 14.8
4	21 9 17.98	5 3.16	17 39 55.7	21 5.3	0.233 9043	276	12 15.9
5	21 14 21.14	5 1.92	−17 18 50.4	21 34.5	0.233 9319	173	12 17.0
6	21 19 23.06	5 0.67	16 57 15.9	22 3.0	0.233 9492	68	12 18.1
7	21 24 23.73	4 59.42	16 35 12.9	22 30.7	0.233 9560	34	12 19.1
8	21 29 23.15	4 58.19	16 12 42.2	22 57.7	0.233 9526	137	12 20.2
9	21 34 21.34	4 56.97	15 49 44.5	23 24.0	0.233 9389	239	12 21.2
10	21 39 18.31		−15 26 20.5		0.233 9150		12 22.2

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938		h m s	m s	° ′ ″	′ ″			h m
Febr.	10	21 39 18.31	4 55.74	−15 26 20.5	23 49.5	0.233 9150	341	12 22.2
	11	21 44 14.05	4 54.55	15 2 31.0	24 14.1	0.233 8809	442	12 23.1
	12	21 49 8.60	4 53.37	14 38 16.9	24 38.2	0.233 8367	543	12 24.1
	13	21 54 1.97	4 52.21	14 13 38.7	25 1.3	0.233 7824	645	12 25.0
	14	21 58 54.18	4 51.06	13 48 37.4	25 23.9	0.233 7179	746	12 25.9
	15	22 3 45.24	4 49.95	13 23 13.5	25 45.5	0.233 6433	848	12 26.8
	16	22 8 35.19	4 48.87	−12 57 28.0	26 6.4	0.233 5585	950	12 27.7
	17	22 13 24.06	4 47.79	12 31 21.6	26 26.6	0.233 4635	1053	12 28.6
	18	22 18 11.85	4 46.76	12 4 55.0	26 46.0	0.233 3582	1158	12 29.5
	19	22 22 58.61	4 45.75	11 38 9.0	27 4.7	0.233 2424	1262	12 30.3
	20	22 27 44.36	4 44.78	11 11 4.3	27 22.5	0.233 1162	1368	12 31.1
	21	22 32 29.14	4 43.82	10 43 41.8	27 39.7	0.232 9794	1476	12 31.9
	22	22 37 12.96	4 42.91	−10 16 2.1	27 56.0	0.232 8318	1584	12 32.7
	23	22 41 55.87	4 42.03	9 48 6.1	28 11.5	0.232 6734	1693	12 33.4
	24	22 46 37.90	4 41.18	9 19 54.6	28 26.4	0.232 5041	1805	12 34.2
	25	22 51 19.08	4 40.36	8 51 28.2	28 40.4	0.232 3236	1917	12 34.9
	26	22 55 59.44	4 39.57	8 22 47.8	28 53.6	0.232 1319	2030	12 35.6
	27	23 0 39.01	4 38.83	7 53 54.2	29 6.2	0.231 9289	2145	12 36.3
	28	23 5 17.84	4 38.11	− 7 24 48.0	29 17.8	0.231 7144	2261	12 37.0
März	1	23 9 55.95	4 37.43	6 55 30.2	29 28.8	0.231 4883	2377	12 37.7
	2	23 14 33.38	4 36.80	6 26 1.4	29 39.0	0.231 2506	2494	12 38.4
	3	23 19 10.18	4 36.20	5 56 22.4	29 48.5	0.231 0012	2612	12 39.1
	4	23 23 46.38	4 35.62	5 26 33.9	29 57.1	0.230 7400	2731	12 39.7
	5	23 28 22.00	4 35.10	4 56 36.8	30 5.0	0.230 4669	2851	12 40.4
	6	23 32 57.10	4 34.62	− 4 26 31.8	30 12.1	0.230 1818	2970	12 41.0
	7	23 37 31.72	4 34.16	3 56 19.7	30 18.5	0.229 8848	3091	12 41.7
	8	23 42 5.88	4 33.75	3 26 1.2	30 24.2	0.229 5757	3211	12 42.3
	9	23 46 39.63	4 33.38	2 55 37.0	30 29.1	0.229 2546	3332	12 42.9
	10	23 51 13.01	4 33.06	2 25 7.9	30 33.3	0.228 9214	3452	12 43.5
	11	23 55 46.07	4 32.77	1 54 34.6	30 36.8	0.228 5762	3574	12 44.1
	12	0 0 18.84	4 32.52	− 1 23 57.8	30 39.5	0.228 2188	3694	12 44.7
	13	0 4 51.36	4 32.33	0 53 18.3	30 41.4	0.227 8494	3815	12 45.3
	14	0 9 23.69	4 32.17	− 0 22 36.9	30 42.8	0.227 4679	3936	12 45.9
	15	0 13 55.86	4 32.06	+ 0 8 5.9	30 43.2	0.227 0743	4057	12 46.5
	16	0 18 27.92	4 32.00	0 38 49.1	30 43.1	0.226 6686	4180	12 47.1
	17	0 22 59.92	4 31.97	1 9 32.2	30 42.2	0.226 2506	4303	12 47.7
	18	0 27 31.89	4 32.01	+ 1 40 14.4	30 40.6	0.225 8203	4428	12 48.3
	19	0 32 3.90	4 32.07	2 10 55.0	30 38.3	0.225 3775	4554	12 48.9
	20	0 36 35.97	4 32.18	2 41 33.3	30 35.2	0.224 9221	4682	12 49.5
	21	0 41 8.15	4 32.35	3 12 8.5	30 31.4	0.224 4539	4810	12 50.0
	22	0 45 40.50	4 32.54	3 42 39.9	30 27.0	0.223 9729	4940	12 50.6
	23	0 50 13.04		+ 4 13 6.9		0.223 4789		12 51.3

Tag	0h Welt-Zeit Scheinbare Rektaszension		0h Welt-Zeit Scheinbare Deklination		0h Welt-Zeit log Δ		Obere Kulmination in Greenwich
1938	h m s	m s	° ′ ″	′ ″			h m
März 23	0 50 13.04	4 32.79	+ 4 13 6.9	30 21.7	0.223 4789	5072	12 51.3
24	0 54 45.83	4 33.07	4 43 28.6	30 15.7	0.222 9717	5205	12 51.9
25	0 59 18.90	4 33.40	5 13 44.3	30 9.0	0.222 4512	5339	12 52.5
26	1 3 52.30	4 33.76	5 43 53.3	30 1.5	0.221 9173	5476	12 53.1
27	1 8 26.06	4 34.17	6 13 54.8	29 53.3	0.221 3697	5615	12 53.7
28	1 13 0.23	4 34.62	6 43 48.1	29 44.3	0.220 8082	5754	12 54.3
29	1 17 34.85	4 35.11	+ 7 13 32.4	29 34.7	0.220 2328	5896	12 55.0
30	1 22 9.96	4 35.62	7 43 7.1	29 24.3	0.219 6432	6040	12 55.6
31	1 26 45.58	4 36.18	8 12 31.4	29 13.1	0.219 0392	6184	12 56.3
April 1	1 31 21.76	4 36.78	8 41 44.5	29 1.1	0.218 4208	6330	12 57.0
2	1 35 58.54	4 37.39	9 10 45.6	28 48.5	0.217 7878	6477	12 57.6
3	1 40 35.93	4 38.06	9 39 34.1	28 35.0	0.217 1401	6626	12 58.3
4	1 45 13.99	4 38.75	+10 8 9.1	28 20.7	0.216 4775	6776	12 59.0
5	1 49 52.74	4 39.47	10 36 29.8	28 5.8	0.215 7999	6925	12 59.7
6	1 54 32.21	4 40.23	11 4 35.6	27 50.1	0.215 1074	7076	13 0.4
7	1 59 12.44	4 41.00	11 32 25.7	27 33.6	0.214 3998	7227	13 1.2
8	2 3 53.44	4 41.82	11 59 59.3	27 16.4	0.213 6771	7379	13 1.9
9	2 8 35.26	4 42.65	12 27 15.7	26 58.5	0.212 9392	7531	13 2.7
10	2 13 17.91	4 43.52	+12 54 14.2	26 39.8	0.212 1861	7683	13 3.5
11	2 18 1.43	4 44.42	13 20 54.0	26 20.3	0.211 4178	7836	13 4.3
12	2 22 45.85	4 45.35	13 47 14.3	26 0.1	0.210 6342	7989	13 5.1
13	2 27 31.20	4 46.29	14 13 14.4	25 39.2	0.209 8353	8143	13 5.9
14	2 32 17.49	4 47.26	14 38 53.6	25 17.6	0.209 0210	8297	13 6.7
15	2 37 4.75	4 48.25	15 4 11.2	24 55.1	0.208 1913	8453	13 7.6
16	2 41 53.00	4 49.28	+15 29 6.3	24 32.0	0.207 3460	8609	13 8.4
17	2 46 42.28	4 50.30	15 53 38.3	24 8.1	0.206 4851	8767	13 9.3
18	2 51 32.58	4 51.35	16 17 46.4	23 43.4	0.205 6084	8927	13 10.2
19	2 56 23.93	4 52.42	16 41 29.8	23 18.1	0.204 7157	9088	13 11.2
20	3 1 16.35	4 53.50	17 4 47.9	22 52.0	0.203 8069	9252	13 12.1
21	3 6 9.85	4 54.59	17 27 39.9	22 25.2	0.202 8817	9415	13 13.1
22	3 11 4.44	4 55.68	+17 50 5.1	21 57.7	0.201 9402	9581	13 14.0
23	3 16 0.12	4 56.78	18 12 2.8	21 29.3	0.200 9821	9748	13 15.0
24	3 20 56.90	4 57.89	18 33 32.1	21 0.3	0.200 0073	9917	13 16.0
25	3 25 54.79	4 58.99	18 54 32.4	20 30.6	0.199 0156	1 0088	13 17.1
26	3 30 53.78	5 0.09	19 15 3.0	20 0.2	0.198 0068	1 0262	13 18.1
27	3 35 53.87	5 1.19	19 35 3.2	19 29.1	0.196 9806	1 0437	13 19.2
28	3 40 55.06	5 2.29	+19 54 32.3	18 57.3	0.195 9369	1 0615	13 20.3
29	3 45 57.35	5 3.35	20 13 29.6	18 24.9	0.194 8754	1 0794	13 21.4
30	3 51 0.70	5 4.42	20 31 54.5	17 51.7	0.193 7960	1 0974	13 22.5
Mai 1	3 56 5.12	5 5.46	20 49 46.2	17 17.9	0.192 6986	1 1157	13 23.7
2	4 1 10.58	5 6.47	21 7 4.1	16 43.5	0.191 5829	1 1341	13 24.8
3	4 6 17.05		+21 23 47.6		0.190 4488		13 26.0

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1938	h m s	m s	° ′ ″	′ ″			h m
Mai 3	4 6 17.05	5 7.48	+21 23 47.6	16 8.4	0.190 4488	1 1526	13 26.0
4	4 11 24.53	5 8.44	21 39 56.0	15 32.8	0.189 2962	1 1711	13 27.2
5	4 16 32.97	5 9.39	21 55 28.8	14 56.5	0.188 1251	1 1898	13 28.4
6	4 21 42.36	5 10.30	22 10 25.3	14 19.7	0.186 9353	1 2085	13 29.6
7	4 26 52.66	5 11.18	22 24 45.0	13 42.3	0.185 7268	1 2273	13 30.9
8	4 32 3.84	5 12.02	22 38 27.3	13 4.4	0.184 4995	1 2460	13 32.1
9	4 37 15.86	5 12.83	+22 51 31.7	12 26.0	0.183 2535	1 2648	13 33.4
10	4 42 28.69	5 13.60	23 3 57.7	11 47.1	0.181 9887	1 2837	13 34.7
11	4 47 42.29	5 14.32	23 15 44.8	11 7.7	0.180 7050	1 3025	13 36.0
12	4 52 56.61	5 15.01	23 26 52.5	10 28.0	0.179 4025	1 3215	13 37.3
13	4 58 11.62	5 15.65	23 37 20.5	9 47.7	0.178 0810	1 3406	13 38.6
14	5 3 27.27	5 16.25	23 47 8.2	9 7.1	0.176 7404	1 3597	13 39.9
15	5 8 43.52	5 16.80	+23 56 15.3	8 26.1	0.175 3807	1 3789	13 41.2
16	5 14 0.32	5 17.29	24 4 41.4	7 44.8	0.174 0018	1 3983	13 42.6
17	5 19 17.61	5 17.74	24 12 26.2	7 3.2	0.172 6035	1 4177	13 43.9
18	5 24 35.35	5 18.14	24 19 29.4	6 21.2	0.171 1858	1 4372	13 45.3
19	5 29 53.49	5 18.47	24 25 50.6	5 39.0	0.169 7486	1 4570	13 46.6
20	5 35 11.96	5 18.75	24 31 29.6	4 56.6	0.168 2916	1 4767	13 48.0
21	5 40 30.71	5 18.97	+24 36 26.2	4 14.0	0.166 8149	1 4968	13 49.4
22	5 45 49.68	5 19.13	24 40 40.2	3 31.2	0.165 3181	1 5168	13 50.8
23	5 51 8.81	5 19.23	24 44 11.4	2 48.2	0.163 8013	1 5373	13 52.2
24	5 56 28.04	5 19.27	24 46 59.6	2 5.2	0.162 2640	1 5578	13 53.5
25	6 1 47.31	5 19.25	24 49 4.8	1 22.2	0.160 7062	1 5786	13 54.9
26	6 7 6.56	5 19.16	24 50 27.0	0 39.0	0.159 1276	1 5997	13 56.3
27	6 12 25.72	5 19.01	+24 51 6.0	0 4.2	0.157 5279	1 6208	13 57.7
28	6 17 44.73	5 18.80	24 51 1.8	0 47.2	0.155 9071	1 6422	13 59.0
29	6 23 3.53	5 18.50	24 50 14.6	1 30.3	0.154 2649	1 6638	14 0.4
30	6 28 22.03	5 18.15	24 48 44.3	2 13.3	0.152 6011	1 6854	14 1.8
31	6 33 40.18	5 17.73	24 46 31.0	2 56.1	0.150 9157	1 7073	14 3.1
Juni 1	6 38 57.91	5 17.25	24 43 34.9	3 38.7	0.149 2084	1 7294	14 4.5
2	6 44 15.16	5 16.69	+24 39 56.2	4 21.2	0.147 4790	1 7516	14 5.8
3	6 49 31.85	5 16.08	24 35 35.0	5 3.4	0.145 7274	1 7739	14 7.2
4	6 54 47.93	5 15.41	24 30 31.6	5 45.4	0.143 9535	1 7963	14 8.5
5	7 0 3.34	5 14.66	24 24 46.2	6 27.1	0.142 1572	1 8186	14 9.8
6	7 5 18.00	5 13.87	24 18 19.1	7 8.5	0.140 3386	1 8408	14 11.1
7	7 10 31.87	5 13.02	24 11 10.6	7 49.6	0.138 4978	1 8633	14 12.4
8	7 15 44.89	5 12.11	+24 3 21.0	8 30.3	0.136 6345	1 8858	14 13.6
9	7 20 57.00	5 11.16	23 54 50.7	9 10.6	0.134 7487	1 9082	14 14.9
10	7 26 8.16	5 10.15	23 45 40.1	9 50.5	0.132 8405	1 9309	14 16.1
11	7 31 18.31	5 9.10	23 35 49.6	10 30.0	0.130 9096	1 9535	14 17.3
12	7 36 27.41	5 8.01	23 25 19.6	11 9.0	0.128 9561	1 9761	14 18.5
13	7 41 35.42		+23 14 10.6		0.126 9800		14 19.7

Tag		0h Welt-Zeit						Obere Kulmination in Greenwich
		Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1938		h m s	m s	° ′ ″	′ ″			h m
Juni	13	7 41 35.42	5 6.87	+23 14 10.6	11 47.5	0.126 9800	1 9990	14 19.7
	14	7 46 42.29	5 5.70	23 2 23.1	12 25.6	0.124 9810	2 0219	14 20.9
	15	7 51 47.99	5 4.49	22 49 57.5	13 3.2	0.122 9591	2 0448	14 22.0
	16	7 56 52.48	5 3.24	22 36 54.3	13 40.2	0.120 9143	2 0679	14 23.1
	17	8 1 55.72	5 1.97	22 23 14.1	14 16.7	0.118 8464	2 0912	14 24.2
	18	8 6 57.69	5 0.67	22 8 57.4	14 52.5	0.116 7552	2 1145	14 25.3
	19	8 11 58.36	4 59.33	+21 54 4.9	15 27.9	0.114 6407	2 1380	14 26.4
	20	8 16 57.69	4 57.98	21 38 37.0	16 2.6	0.112 5027	2 1617	14 27.4
	21	8 21 55.67	4 56.61	21 22 34.4	16 36.7	0.110 3410	2 1856	14 28.4
	22	8 26 52.28	4 55.21	21 5 57.7	17 10.2	0.108 1554	2 2098	14 29.4
	23	8 31 47.49	4 53.81	20 48 47.5	17 43.1	0.105 9456	2 2342	14 30.4
	24	8 36 41.30	4 52.38	20 31 4.4	18 15.2	0.103 7114	2 2588	14 31.3
	25	8 41 33.68	4 50.94	+20 12 49.2	18 46.8	0.101 4526	2 2837	14 32.2
	26	8 46 24.62	4 49.48	19 54 2.4	19 17.6	0.099 1689	2 3088	14 33.1
	27	8 51 14.10	4 48.02	19 34 44.8	19 47.8	0.096 8601	2 3342	14 34.0
	28	8 56 2.12	4 46.54	19 14 57.0	20 17.2	0.094 5259	2 3598	14 34.8
	29	9 0 48.66	4 45.07	18 54 39.8	20 46.0	0.092 1661	2 3857	14 35.6
	30	9 5 33.73	4 43.57	18 33 53.8	21 13.9	0.089 7804	2 4118	14 36.4
Juli	1	9 10 17.30	4 42.08	+18 12 39.9	21 41.3	0.087 3686	2 4381	14 37.2
	2	9 14 59.38	4 40.58	17 50 58.6	22 7.9	0.084 9305	2 4644	14 37.9
	3	9 19 39.96	4 39.09	17 28 50.7	22 33.7	0.082 4661	2 4909	14 38.7
	4	9 24 19.05	4 37.59	17 6 17.0	22 58.8	0.079 9752	2 5174	14 39.4
	5	9 28 56.64	4 36.10	16 43 18.2	23 23.2	0.077 4578	2 5441	14 40.0
	6	9 33 32.74	4 34.62	16 19 55.0	23 46.9	0.074 9137	2 5709	14 40.7
	7	9 38 7.36	4 33.15	+15 56 8.1	24 9.9	0.072 3428	2 5977	14 41.3
	8	9 42 40.51	4 31.68	15 31 58.2	24 32.1	0.069 7451	2 6247	14 41.9
	9	9 47 12.19	4 30.24	15 7 26.1	24 53.7	0.067 1204	2 6517	14 42.5
	10	9 51 42.43	4 28.81	14 42 32.4	25 14.5	0.064 4687	2 6789	14 43.0
	11	9 56 11.24	4 27.39	14 17 17.9	25 34.7	0.061 7898	2 7062	14 43.5
	12	10 0 38.63	4 25.99	13 51 43.2	25 54.1	0.059 0836	2 7336	14 44.0
	13	10 5 4.62	4 24.62	+13 25 49.1	26 12.9	0.056 3500	2 7612	14 44.5
	14	10 9 29.24	4 23.27	12 59 36.2	26 30.9	0.053 5888	2 7889	14 45.0
	15	10 13 52.51	4 21.93	12 33 5.3	26 48.3	0.050 7999	2 8167	14 45.4
	16	10 18 14.44	4 20.62	12 6 17.0	27 4.9	0.047 9832	2 8448	14 45.8
	17	10 22 35.06	4 19.33	11 39 12.1	27 21.0	0.045 1384	2 8730	14 46.2
	18	10 26 54.39	4 18.07	11 11 51.1	27 36.3	0.042 2654	2 9016	14 46.6
	19	10 31 12.46	4 16.84	+10 44 14.8	27 50.9	0.039 3638	2 9303	14 46.9
	20	10 35 29.30	4 15.64	10 16 23.9	28 4.8	0.036 4335	2 9595	14 47.2
	21	10 39 44.94	4 14.45	9 48 19.1	28 18.1	0.033 4740	2 9888	14 47.5
	22	10 43 59.39	4 13.30	9 20 1.0	28 30.8	0.030 4852	3 0186	14 47.8
	23	10 48 12.69	4 12.17	8 51 30.2	28 42.7	0.027 4666	3 0488	14 48.1
	24	10 52 24.86		+ 8 22 47.5		0.024 4178		14 48.3

Tag		0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938		h m s	m s	° ′ ″	′ ″			h m
Juli	24	10 52 24.86	4 11.07	+ 8 22 47.5	28 53.9	0.024 4178	3 0793	14 48.3
	25	10 56 35.93	4 10.00	7 53 53.6	29 4.6	0.021 3385	3 1102	14 48.6
	26	11 0 45.93	4 8.95	7 24 49.0	29 14.5	0.018 2283	3 1415	14 48.8
	27	11 4 54.88	4 7.92	6 55 34.5	29 23.7	0.015 0868	3 1732	14 49.0
	28	11 9 2.80	4 6.91	6 26 10.8	29 32.3	0.011 9136	3 2055	14 49.2
	29	11 13 9.71	4 5.94	5 56 38.5	29 40.1	0.008 7081	3 2379	14 49.3
	30	11 17 15.65	4 4.98	+ 5 26 58.4	29 47.3	0.005 4702	3 2708	14 49.5
	31	11 21 20.63	4 4.04	4 57 11.1	29 53.8	0.002 1994	3 3039	14 49.6
Aug.	1	11 25 24.67	4 3.12	4 27 17.3	29 59.7	9.998 8955	3 3374	14 49.7
	2	11 29 27.79	4 2.22	3 57 17.6	30 4.9	9.995 5581	3 3711	14 49.8
	3	11 33 30.01	4 1.36	3 27 12.7	30 9.4	9.992 1870	3 4050	14 49.9
	4	11 37 31.37	4 0.51	2 57 3.3	30 13.3	9.988 7820	3 4393	14 50.0
	5	11 41 31.88	3 59.68	+ 2 26 50.0	30 16.6	9.985 3427	3 4736	14 50.0
	6	11 45 31.56	3 58.88	1 56 33.4	30 19.2	9.981 8691	3 5084	14 50.1
	7	11 49 30.44	3 58.10	1 26 14.2	30 21.2	9.978 3607	3 5433	14 50.1
	8	11 53 28.54	3 57.34	0 55 53.0	30 22.6	9.974 8174	3 5786	14 50.1
	9	11 57 25.88	3 56.60	+ 0 25 30.4	30 23.3	9.971 2388	3 6141	14 50.1
	10	12 1 22.48	3 55.89	− 0 4 52.9	30 23.6	9.967 6247	3 6500	14 50.1
	11	12 5 18.37	3 55.21	− 0 35 16.5	30 23.1	9.963 9747	3 6862	14 50.1
	12	12 9 13.58	3 54.53	1 5 39.6	30 22.0	9.960 2885	3 7226	14 50.1
	13	12 13 8.11	3 53.90	1 36 1.6	30 20.5	9.956 5659	3 7593	14 50.0
	14	12 17 2.01	3 53.27	2 6 22.1	30 18.2	9.952 8066	3 7965	14 50.0
	15	12 20 55.28	3 52.67	2 36 40.3	30 15.4	9.949 0101	3 8341	14 49.9
	16	12 24 47.95	3 52.09	3 6 55.7	30 12.0	9.945 1760	3 8720	14 49.8
	17	12 28 40.04	3 51.52	− 3 37 7.7	30 8.0	9.941 3040	3 9104	14 49.8
	18	12 32 31.56	3 50.99	4 7 15.7	30 3.4	9.937 3936	3 9493	14 49.7
	19	12 36 22.55	3 50.45	4 37 19.1	29 58.3	9.933 4443	3 9889	14 49.6
	20	12 40 13.00	3 49.95	5 7 17.4	29 52.6	9.929 4554	4 0290	14 49.5
	21	12 44 2.95	3 49.45	5 37 10.0	29 46.2	9.925 4264	4 0697	14 49.4
	22	12 47 52.40	3 48.96	6 6 56.2	29 39.3	9.921 3567	4 1112	14 49.2
	23	12 51 41.36	3 48.49	− 6 36 35.5	29 31.8	9.917 2455	4 1534	14 49.1
	24	12 55 29.85	3 48.01	7 6 7.3	29 23.7	9.913 0921	4 1963	14 49.0
	25	12 59 17.86	3 47.54	7 35 31.0	29 14.9	9.908 8958	4 2399	14 48.8
	26	13 3 5.40	3 47.07	8 4 45.9	29 5.6	9.904 6559	4 2842	14 48.7
	27	13 6 52.47	3 46.59	8 33 51.5	28 55.6	9.900 3717	4 3291	14 48.5
	28	13 10 39.06	3 46.11	9 2 47.1	28 45.0	9.896 0426	4 3747	14 48.3
	29	13 14 25.17	3 45.61	− 9 31 32.1	28 33.9	9.891 6679	4 4210	14 48.1
	30	13 18 10.78	3 45.11	10 0 6.0	28 22.0	9.887 2469	4 4678	14 48.0
	31	13 21 55.89	3 44.59	10 28 28.0	28 9.7	9.882 7791	4 5152	14 47.8
Sept.	1	13 25 40.48	3 44.06	10 56 37.7	27 56.7	9.878 2639	4 5631	14 47.6
	2	13 29 24.54	3 43.50	11 24 34.4	27 43.1	9.873 7008	4 6115	14 47.3
	3	13 33 8.04		−11 52 17.5		9.869 0893		14 47.1

Tag	0h Welt-Zeit: Scheinbare Rektaszension (h m s)	Diff. (m s)	0h Welt-Zeit: Scheinbare Deklination (° ′ ″)	Diff. (′ ″)	log Δ	Diff.	Obere Kulmination in Greenwich (h m)
1938 Sept. 3	13 33 8.04	3 42.94	−11 52 17.5	27 28.9	9.869 0893	4 6604	14 47.1
4	13 36 50.98	3 42.34	12 19 46.4	27 14.2	9.864 4289	4 7099	14 46.9
5	13 40 33.32	3 41.73	12 47 0.6	26 58.8	9.859 7190	4 7600	14 46.6
6	13 44 15.05	3 41.09	13 13 59.4	26 42.9	9.854 9590	4 8106	14 46.4
7	13 47 56.14	3 40.42	13 40 42.3	26 26.5	9.850 1484	4 8617	14 46.1
8	13 51 36.56	3 39.71	14 7 8.8	26 9.4	9.845 2867	4 9133	14 45.9
9	13 55 16.27	3 38.98	−14 33 18.2	25 51.9	9.840 3734	4 9653	14 45.6
10	13 58 55.25	3 38.21	14 59 10.1	25 33.8	9.835 4081	5 0179	14 45.3
11	14 2 33.46	3 37.40	15 24 43.9	25 15.1	9.830 3902	5 0710	14 45.0
12	14 6 10.86	3 36.55	15 49 59.0	24 55.9	9.825 3192	5 1246	14 44.6
13	14 9 47.41	3 35.65	16 14 54.9	24 36.1	9.820 1946	5 1788	14 44.3
14	14 13 23.06	3 34.71	16 39 31.0	24 15.9	9.815 0158	5 2335	14 43.9
15	14 16 57.77	3 33.71	−17 3 46.9	23 55.0	9.809 7823	5 2890	14 43.5
16	14 20 31.48	3 32.65	17 27 41.9	23 33.7	9.804 4933	5 3451	14 43.1
17	14 24 4.13	3 31.53	17 51 15.6	23 11.8	9.799 1482	5 4021	14 42.7
18	14 27 35.66	3 30.35	18 14 27.4	22 49.5	9.793 7461	5 4597	14 42.3
19	14 31 6.01	3 29.10	18 37 16.9	22 26.7	9.788 2864	5 5183	14 41.9
20	14 34 35.11	3 27.76	18 59 43.6	22 3.3	9.782 7681	5 5775	14 41.4
21	14 38 2.87	3 26.32	−19 21 46.9	21 39.3	9.777 1906	5 6377	14 40.9
22	14 41 29.19	3 24.80	19 43 26.2	21 15.0	9.771 5529	5 6987	14 40.4
23	14 44 53.99	3 23.18	20 4 41.2	20 50.0	9.765 8542	5 7603	14 39.8
24	14 48 17.17	3 21.43	20 25 31.2	20 24.6	9.760 0939	5 8226	14 39.3
25	14 51 38.60	3 19.56	20 45 55.8	19 58.7	9.754 2713	5 8855	14 38.7
26	14 54 58.16	3 17.56	21 5 54.5	19 32.1	9.748 3858	5 9489	14 38.0
27	14 58 15.72	3 15.44	−21 25 26.6	19 5.2	9.742 4369	6 0128	14 37.3
28	15 1 31.16	3 13.16	21 44 31.8	18 37.7	9.736 4241	6 0767	14 36.6
29	15 4 44.32	3 10.73	22 3 9.5	18 9.6	9.730 3474	6 1409	14 35.9
30	15 7 55.05	3 8.14	22 21 19.1	17 41.2	9.724 2065	6 2051	14 35.1
Okt. 1	15 11 3.19	3 5.38	22 39 0.3	17 12.0	9.718 0014	6 2691	14 34.3
2	15 14 8.57	3 2.46	22 56 12.3	16 42.5	9.711 7323	6 3329	14 33.4
3	15 17 11.03	2 59.36	−23 12 54.8	16 12.5	9.705 3994	6 3962	14 32.5
4	15 20 10.39	2 56.06	23 29 7.3	15 41.9	9.699 0032	6 4591	14 31.5
5	15 23 6.45	2 52.57	23 44 49.2	15 10.8	9.692 5441	6 5211	14 30.4
6	15 25 59.02	2 48.87	24 0 0.0	14 39.1	9.686 0230	6 5821	14 29.3
7	15 28 47.89	2 44.96	24 14 39.1	14 6.9	9.679 4409	6 6418	14 28.2
8	15 31 32.85	2 40.83	24 28 46.0	13 34.1	9.672 7991	6 7000	14 26.9
9	15 34 13.68	2 36.48	−24 42 20.1	13 0.7	9.666 0991	6 7566	14 25.6
10	15 36 50.16	2 31.89	24 55 20.8	12 27.0	9.659 3425	6 8116	14 24.2
11	15 39 22.05	2 27.07	25 7 47.8	11 52.5	9.652 5309	6 8646	14 22.8
12	15 41 49.12	2 22.02	25 19 40.3	11 17.3	9.645 6663	6 9149	14 21.2
13	15 44 11.14	2 16.71	25 30 57.6	10 41.5	9.638 7514	6 9621	14 19.6
14	15 46 27.85		−25 41 39.1		9.631 7893		14 17.9

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938		h m s	m s	° ′ ″	′ ″			h m
Okt.	14	15 46 27.85	2 11.14	−25 41 39.1	10 4.8	9.631 7893	7 0058	14 17.9
	15	15 48 38.99	2 5.30	25 51 43.9	9 27.5	9.624 7835	7 0463	14 16.1
	16	15 50 44.29	1 59.22	26 1 11.4	8 49.5	9.617 7372	7 0836	14 14.2
	17	15 52 43.51	1 52.84	26 10 0.9	8 10.7	9.610 6536	7 1168	14 12.2
	18	15 54 36.35	1 46.17	26 18 11.6	7 30.9	9.603 5368	7 1450	14 10.0
	19	15 56 22.52	1 39.21	26 25 42.5	6 50.2	9.596 3918	7 1678	14 7.8
	20	15 58 1.73	1 31.97	−26 32 32.7	6 8.4	9.589 2240	7 1847	14 5.4
	21	15 59 33.70	1 24.43	26 38 41.1	5 25.6	9.582 0393	7 1951	14 3.0
	22	16 0 58.13	1 16.57	26 44 6.7	4 41.5	9.574 8442	7 1982	14 0.4
	23	16 2 14.70	1 8.41	26 48 48.2	3 56.1	9.567 6460	7 1931	13 57.6
	24	16 3 23.11	0 59.96	26 52 44.3	3 9.5	9.560 4529	7 1786	13 54.7
	25	16 4 23.07	0 51.22	26 55 53.8	2 21.5	9.553 2743	7 1540	13 51.7
	26	16 5 14.29	0 42.19	−26 58 15.3	1 31.8	9.546 1203	7 1180	13 48.5
	27	16 5 56.48	0 32.90	26 59 47.1	0 40.6	9.539 0023	7 0698	13 45.2
	28	16 6 29.38	0 23.39	27 0 27.7	0 12.5	9.531 9325	7 0077	13 41.8
	29	16 6 52.77	0 13.67	27 0 15.2	1 7.1	9.524 9248	6 9308	13 38.1
	30	16 7 6.44	0 3.76	26 59 8.1	2 3.5	9.517 9940	6 8382	13 34.3
	31	16 7 10.20	0 6.31	26 57 4.6	3 1.8	9.511 1558	6 7283	13 30.4
Nov.	1	16 7 3.89	0 16.47	−26 54 2.8	4 1.8	9.504 4275	6 6001	13 26.2
	2	16 6 47.42	0 26.69	26 50 1.0	5 3.7	9.497 8274	6 4523	13 21.9
	3	16 6 20.73	0 36.87	26 44 57.3	6 7.2	9.491 3751	6 2838	13 17.5
	4	16 5 43.86	0 46.99	26 38 50.1	7 12.4	9.485 0913	6 0935	13 12.8
	5	16 4 56.87	0 56.98	26 31 37.7	8 18.9	9.478 9978	5 8803	13 8.0
	6	16 3 59.89	1 6.76	26 23 18.8	9 26.6	9.473 1175	5 6439	13 3.1
	7	16 2 53.13	1 16.22	−26 13 52.2	10 35.2	9.467 4736	5 3837	12 58.0
	8	16 1 36.91	1 25.31	26 3 17.0	11 44.3	9.462 0899	5 0994	12 52.7
	9	16 0 11.60	1 33.93	25 51 32.7	12 53.4	9.456 9905	4 7906	12 47.3
	10	15 58 37.67	1 42.02	25 38 39.3	14 2.2	9.452 1999	4 4581	12 41.7
	11	15 56 55.65	1 49.45	25 24 37.1	15 9.9	9.447 7418	4 1024	12 36.0
	12	15 55 6.20	1 56.18	25 9 27.2	16 16.0	9.443 6394	3 7247	12 30.2
	13	15 53 10.02	2 2.13	−24 53 11.2	17 19.7	9.439 9147	3 3261	12 24.3
	14	15 51 7.89	2 7.24	24 35 51.5	18 20.4	9.436 5886	2 9086	12 18.3
	15	15 49 0.65	2 11.44	24 17 31.1	19 17.7	9.433 6800	2 4738	12 12.2
	16	15 46 49.21	2 14.71	23 58 13.4	20 10.6	9.431 2062	2 0243	12 6.1
	17	15 44 34.50	2 17.03	23 38 2.8	20 58.3	9.429 1819	1 5623	11 59.9
	18	15 42 17.47	2 18.35	23 17 4.5	21 40.3	9.427 6196	1 0906	11 53.7
	19	15 39 59.12	2 18.67	−22 55 24.2	22 16.2	9.426 5290	6118	11 47.4
	20	15 37 40.45	2 17.98	22 33 8.0	22 45.3	9.425 9172	1291	11 41.2
	21	15 35 22.47	2 16.32	22 10 22.7	23 7.1	9.425 7881	3540	11 35.0
	22	15 33 6.15	2 13.70	21 47 15.6	23 21.7	9.426 1421	8348	11 28.9
	23	15 30 52.45	2 10.16	21 23 53.9	23 28.5	9.426 9769	1 3099	11 22.7
	24	15 28 42.29		−21 0 25.4		9.428 2868		11 16.7

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension	Diff.	0ʰ Welt-Zeit: Scheinbare Deklination	Diff.	0ʰ Welt-Zeit: log Δ	Diff.	Obere Kulmination in Greenwich
1938	h m s	m s	° ′ ″	′ ″			h m
Nov. 24	15 28 42.29	2 5.74	−21 0 25.4	23 27.8	9.428 2868	1 7769	11 16.7
25	15 26 36.55	2 0.54	20 36 57.6	23 19.3	9.430 0637	2 2324	11 10.7
26	15 24 36.01	1 54.57	20 13 38.3	23 3.4	9.432 2961	2 6742	11 4.8
27	15 22 41.44	1 47.91	19 50 34.9	22 40.3	9.434 9703	3 0996	10 59.0
28	15 20 53.53	1 40.64	19 27 54.6	22 10.3	9.438 0699	3 5070	10 53.4
29	15 19 12.89	1 32.84	19 5 44.3	21 34.0	9.441 5769	3 8943	10 47.8
30	15 17 40.05	1 24.58	−18 44 10.3	20 51.8	9.445 4712	4 2604	10 42.4
Dez. 1	15 16 15.47	1 15.93	18 23 18.5	20 4.7	9.449 7316	4 6036	10 37.2
2	15 14 59.54	1 6.96	18 3 13.8	19 12.8	9.454 3352	4 9238	10 32.1
3	15 13 52.58	0 57.75	17 44 1.0	18 16.8	9.459 2590	5 2210	10 27.1
4	15 12 54.83	0 48.36	17 25 44.2	17 17.4	9.464 4800	5 4945	10 22.3
5	15 12 6.47	0 38.83	17 8 26.8	16 15.3	9.469 9745	5 7442	10 17.6
6	15 11 27.64	0 29.23	−16 52 11.5	15 10.9	9.475 7187	5 9706	10 13.1
7	15 10 58.41	0 19.61	16 37 0.6	14 5.1	9.481 6893	6 1746	10 8.7
8	15 10 38.80	0 10.03	16 22 55.5	12 58.3	9.487 8639	6 3562	10 4.5
9	15 10 28.77	0 0.50	16 9 57.2	11 51.0	9.494 2201	6 5159	10 0.5
10	15 10 28.27	0 8.92	15 58 6.2	10 43.6	9.500 7360	6 6550	9 56.6
11	15 10 37.19	0 18.18	15 47 22.6	9 36.5	9.507 3910	6 7753	9 52.9
12	15 10 55.37	0 27.29	−15 37 46.1	8 30.2	9.514 1663	6 8776	9 49.3
13	15 11 22.66	0 36.20	15 29 15.9	7 25.1	9.521 0439	6 9624	9 45.9
14	15 11 58.86	0 44.90	15 21 50.8	6 21.5	9.528 0063	7 0314	9 42.6
15	15 12 43.76	0 53.37	15 15 29.3	5 19.2	9.535 0377	7 0859	9 39.5
16	15 13 37.13	1 1.60	15 10 10.1	4 18.9	9.542 1236	7 1272	9 36.5
17	15 14 38.73	1 9.61	15 5 51.2	3 20.5	9.549 2508	7 1567	9 33.7
18	15 15 48.34	1 17.35	−15 2 30.7	2 24.4	9.556 4075	7 1752	9 30.9
19	15 17 5.69	1 24.86	15 0 6.3	1 30.2	9.563 5827	7 1835	9 28.3
20	15 18 30.55	1 32.13	14 58 36.1	0 38.4	9.570 7662	7 1827	9 25.9
21	15 20 2.68	1 39.17	14 57 57.7	0 11.2	9.577 9489	7 1739	9 23.5
22	15 21 41.85	1 45.97	14 58 8.9	0 58.4	9.585 1228	7 1581	9 21.3
23	15 23 27.82	1 52.55	14 59 7.3	1 43.1	9.592 2809	7 1357	9 19.1
24	15 25 20.37	1 58.92	−15 0 50.4	2 25.6	9.599 4166	7 1076	9 17.1
25	15 27 19.29	2 5.06	15 3 16.0	3 5.7	9.606 5242	7 0746	9 15.2
26	15 29 24.35	2 11.00	15 6 21.7	3 43.6	9.613 5988	7 0369	9 13.4
27	15 31 35.35	2 16.77	15 10 5.3	4 19.0	9.620 6357	6 9950	9 11.7
28	15 33 52.12	2 22.33	15 14 24.3	4 52.2	9.627 6307	6 9495	9 10.0
29	15 36 14.45	2 27.73	15 19 16.5	5 23.2	9.634 5802	6 9012	9 8.5
30	15 38 42.18	2 32.94	−15 24 39.7	5 52.0	9.641 4814	6 8504	9 7.1
31	15 41 15.12	2 38.00	15 30 31.7	6 18.6	9.648 3318	6 7971	9 5.7
32	15 43 53.12		−15 36 50.3		9.655 1289		9 4.4

Tag		0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1938		h m s	m s	° ′ ″	′ ″			h m
Jan.	0	22 36 18.48	2 49.44	−9 47 39.2	17 51.1	0.218 1969	1 7312	15 59.6
	1	22 39 7.92	2 49.15	9 29 48.1	17 55.5	0.219 9281	1 7258	15 58.4
	2	22 41 57.07	2 48.86	9 11 52.6	17 59.6	0.221 6539	1 7204	15 57.3
	3	22 44 45.93	2 48.57	8 53 53.0	18 3.5	0.223 3743	1 7149	15 56.2
	4	22 47 34.50	2 48.30	8 35 49.5	18 7.2	0.225 0892	1 7093	15 55.0
	5	22 50 22.80	2 48.02	8 17 42.3	18 10.8	0.226 7985	1 7036	15 53.9
	6	22 53 10.82	2 47.74	−7 59 31.5	18 14.1	0.228 5021	1 6979	15 52.8
	7	22 55 58.56	2 47.47	7 41 17.4	18 17.3	0.230 2000	1 6921	15 51.6
	8	22 58 46.03	2 47.21	7 23 0.1	18 20.2	0.231 8921	1 6865	15 50.4
	9	23 1 33.24	2 46.94	7 4 39.9	18 23.1	0.233 5786	1 6807	15 49.3
	10	23 4 20.18	2 46.68	6 46 16.8	18 25.6	0.235 2593	1 6751	15 48.1
	11	23 7 6.86	2 46.43	6 27 51.2	18 28.0	0.236 9344	1 6693	15 47.0
	12	23 9 53.29	2 46.18	−6 9 23.2	18 30.2	0.238 6037	1 6637	15 45.8
	13	23 12 39.47	2 45.94	5 50 53.0	18 32.2	0.240 2674	1 6581	15 44.6
	14	23 15 25.41	2 45.71	5 32 20.8	18 34.0	0.241 9255	1 6526	15 43.4
	15	23 18 11.12	2 45.47	5 13 46.8	18 35.6	0.243 5781	1 6471	15 42.3
	16	23 20 56.59	2 45.26	4 55 11.2	18 37.1	0.245 2252	1 6417	15 41.1
	17	23 23 41.85	2 45.04	4 36 34.1	18 38.5	0.246 8669	1 6365	15 39.9
	18	23 26 26.89	2 44.84	−4 17 55.6	18 39.6	0.248 5034	1 6311	15 38.7
	19	23 29 11.73	2 44.65	3 59 16.0	18 40.6	0.250 1345	1 6257	15 37.5
	20	23 31 56.38	2 44.47	3 40 35.4	18 41.4	0.251 7602	1 6204	15 36.3
	21	23 34 40.85	2 44.29	3 21 54.0	18 42.2	0.253 3806	1 6150	15 35.1
	22	23 37 25.14	2 44.13	3 3 11.8	18 42.7	0.254 9956	1 6095	15 33.9
	23	23 40 9.27	2 43.97	2 44 29.1	18 43.0	0.256 6051	1 6039	15 32.7
	24	23 42 53.24	2 43.83	−2 25 46.1	18 43.3	0.258 2090	1 5982	15 31.5
	25	23 45 37.07	2 43.69	2 7 2.8	18 43.2	0.259 8072	1 5925	15 30.3
	26	23 48 20.76	2 43.55	1 48 19.6	18 43.1	0.261 3997	1 5866	15 29.0
	27	23 51 4.31	2 43.43	1 29 36.5	18 42.8	0.262 9863	1 5807	15 27.8
	28	23 53 47.74	2 43.32	1 10 53.7	18 42.3	0.264 5670	1 5747	15 26.6
	29	23 56 31.06	2 43.21	0 52 11.4	18 41.6	0.266 1417	1 5687	15 25.4
	30	23 59 14.27	2 43.12	−0 33 29.8	18 40.9	0.267 7104	1 5624	15 24.2
	31	0 1 57.39	2 43.01	−0 14 48.9	18 39.8	0.269 2728	1 5562	15 22.9
Febr.	1	0 4 40.40	2 42.94	+0 3 50.9	18 38.7	0.270 8290	1 5499	15 21.7
	2	0 7 23.34	2 42.85	0 22 29.6	18 37.3	0.272 3789	1 5434	15 20.5
	3	0 10 6.19	2 42.77	0 41 6.9	18 35.8	0.273 9223	1 5368	15 19.3
	4	0 12 48.96	2 42.70	0 59 42.7	18 34.1	0.275 4591	1 5303	15 18.0
	5	0 15 31.66	2 42.64	+1 18 16.8	18 32.2	0.276 9894	1 5236	15 16.8
	6	0 18 14.30	2 42.57	1 36 49.0	18 30.2	0.278 5130	1 5169	15 15.6
	7	0 20 56.87	2 42.52	1 55 19.2	18 28.0	0.280 0299	1 5103	15 14.3
	8	0 23 39.39	2 42.47	2 13 47.2	18 25.7	0.281 5402	1 5037	15 13.1
	9	0 26 21.86	2 42.42	2 32 12.9	18 23.2	0.283 0439	1 4970	15 11.9
	10	0 29 4.28		+2 50 36.1		0.284 5409		15 10.6

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938	h m s	m s	° ′ ″	′ ″			h m
Febr. 10	0 29 4.28	2 42.39	+ 2 50 36.1	18 20.4	0.284 5409	1 4905	15 10.6
11	0 31 46.67	2 42.36	3 8 56.5	18 17.6	0.286 0314	1 4841	15 9.4
12	0 34 29.03	2 42.33	3 27 14.1	18 14.6	0.287 5155	1 4775	15 8.2
13	0 37 11.36	2 42.31	3 45 28.7	18 11.5	0.288 9930	1 4711	15 6.9
14	0 39 53.67	2 42.31	4 3 40.2	18 8.2	0.290 4641	1 4648	15 5.7
15	0 42 35.98	2 42.31	4 21 48.4	18 4.7	0.291 9289	1 4583	15 4.5
16	0 45 18.29	2 42.31	+ 4 39 53.1	18 1.1	0.293 3872	1 4520	15 3.2
17	0 48 0.60	2 42.33	4 57 54.2	17 57.5	0.294 8392	1 4456	15 2.0
18	0 50 42.93	2 42.36	5 15 51.7	17 53.7	0.296 2848	1 4392	15 0.7
19	0 53 25.29	2 42.40	5 33 45.4	17 49.7	0.297 7240	1 4328	14 59.5
20	0 56 7.69	2 42.44	5 51 35.1	17 45.5	0.299 1568	1 4262	14 58.3
21	0 58 50.13	2 42.49	6 9 20.6	17 41.4	0.300 5830	1 4197	14 57.0
22	1 1 32.62	2 42.55	+ 6 27 2.0	17 36.9	0.302 0027	1 4130	14 55.8
23	1 4 15.17	2 42.63	6 44 38.9	17 32.4	0.303 4157	1 4062	14 54.6
24	1 6 57.80	2 42.69	7 2 11.3	17 27.8	0.304 8219	1 3995	14 53.3
25	1 9 40.49	2 42.78	7 19 39.1	17 22.9	0.306 2214	1 3925	14 52.1
26	1 12 23.27	2 42.86	7 37 2.0	17 18.0	0.307 6139	1 3856	14 50.9
27	1 15 6.13	2 42.96	7 54 20.0	17 12.9	0.308 9995	1 3785	14 49.7
28	1 17 49.09	2 43.06	+ 8 11 32.9	17 7.6	0.310 3780	1 3714	14 48.4
März 1	1 20 32.15	2 43.17	8 28 40.5	17 2.3	0.311 7494	1 3641	14 47.2
2	1 23 15.32	2 43.27	8 45 42.8	16 56.8	0.313 1135	1 3568	14 46.0
3	1 25 58.59	2 43.39	9 2 39.6	16 51.1	0.314 4703	1 3494	14 44.8
4	1 28 41.98	2 43.50	9 19 30.7	16 45.2	0.315 8197	1 3419	14 43.6
5	1 31 25.48	2 43.62	9 36 15.9	16 39.3	0.317 1616	1 3344	14 42.3
6	1 34 9.10	2 43.75	+ 9 52 55.2	16 33.2	0.318 4960	1 3269	14 41.1
7	1 36 52.85	2 43.87	10 9 28.4	16 26.9	0.319 8229	1 3192	14 39.9
8	1 39 36.72	2 44.01	10 25 55.3	16 20.5	0.321 1421	1 3117	14 38.7
9	1 42 20.73	2 44.14	10 42 15.8	16 14.0	0.322 4538	1 3042	14 37.5
10	1 45 4.87	2 44.27	10 58 29.8	16 7.3	0.323 7580	1 2966	14 36.3
11	1 47 49.14	2 44.42	11 14 37.1	16 0.6	0.325 0546	1 2892	14 35.1
12	1 50 33.56	2 44.56	+11 30 37.7	15 53.6	0.326 3438	1 2817	14 33.9
13	1 53 18.12	2 44.71	11 46 31.3	15 46.6	0.327 6255	1 2744	14 32.7
14	1 56 2.83	2 44.86	12 2 17.9	15 39.4	0.328 8999	1 2670	14 31.5
15	1 58 47.69	2 45.02	12 17 57.3	15 32.2	0.330 1669	1 2597	14 30.3
16	2 1 32.71	2 45.18	12 33 29.5	15 24.7	0.331 4266	1 2524	14 29.1
17	2 4 17.89	2 45.35	12 48 54.2	15 17.2	0.332 6790	1 2451	14 27.9
18	2 7 3.24	2 45.53	+13 4 11.4	15 9.6	0.333 9241	1 2378	14 26.8
19	2 9 48.77	2 45.71	13 19 21.0	15 1.9	0.335 1619	1 2305	14 25.6
20	2 12 34.48	2 45.89	13 34 22.9	14 54.0	0.336 3924	1 2232	14 24.4
21	2 15 20.37	2 46.09	13 49 16.9	14 46.0	0.337 6156	1 2158	14 23.2
22	2 18 6.46	2 46.29	14 4 2.9	14 38.0	0.338 8314	1 2083	14 22.1
23	2 20 52.75		+14 18 40.9		0.340 0397		14 20.9

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938		h m s	m s	° ′ ″	′ ″			h m
März	23	2 20 52.75	2 46.48	+14 18 40.9	14 29.7	0.340 0397	1 2009	14 20.9
	24	2 23 39.23	2 46.68	14 33 10.6	14 21.4	0.341 2406	1 1933	14 19.7
	25	2 26 25.91	2 46.89	14 47 32.0	14 13.0	0.342 4339	1 1856	14 18.6
	26	2 29 12.80	2 47.11	15 1 45.0	14 4.5	0.343 6195	1 1779	14 17.4
	27	2 31 59.91	2 47.31	15 15 49.5	13 55.8	0.344 7974	1 1700	14 16.3
	28	2 34 47.22	2 47.53	15 29 45.3	13 47.0	0.345 9674	1 1622	14 15.1
	29	2 37 34.75	2 47.75	+15 43 32.3	13 38.2	0.347 1296	1 1541	14 13.9
	30	2 40 22.50	2 47.96	15 57 10.5	13 29.1	0.348 2837	1 1462	14 12.8
	31	2 43 10.46	2 48.17	16 10 39.6	13 20.1	0.349 4299	1 1380	14 11.7
April	1	2 45 58.63	2 48.39	16 23 59.7	13 10.8	0.350 5679	1 1299	14 10.5
	2	2 48 47.02	2 48.61	16 37 10.5	13 1.4	0.351 6978	1 1216	14 9.4
	3	2 51 35.63	2 48.81	16 50 11.9	12 52.0	0.352 8194	1 1133	14 8.3
	4	2 54 24.44	2 49.03	+17 3 3.9	12 42.5	0.353 9327	1 1050	14 7.1
	5	2 57 13.47	2 49.24	17 15 46.4	12 32.8	0.355 0377	1 0968	14 6.0
	6	3 0 2.71	2 49.45	17 28 19.2	12 23.0	0.356 1345	1 0885	14 4.9
	7	3 2 52.16	2 49.65	17 40 42.2	12 13.1	0.357 2230	1 0803	14 3.8
	8	3 5 41.81	2 49.86	17 52 55.3	12 3.1	0.358 3033	1 0721	14 2.7
	9	3 8 31.67	2 50.06	18 4 58.4	11 53.1	0.359 3754	1 0640	14 1.6
	10	3 11 21.73	2 50.26	+18 16 51.5	11 42.9	0.360 4394	1 0558	14 0.5
	11	3 14 11.99	2 50.47	18 28 34.4	11 32.7	0.361 4952	1 0477	13 59.4
	12	3 17 2.46	2 50.67	18 40 7.1	11 22.3	0.362 5429	1 0397	13 58.3
	13	3 19 53.13	2 50.87	18 51 29.4	11 11.9	0.363 5826	1 0316	13 57.2
	14	3 22 44.00	2 51.07	19 2 41.3	11 1.4	0.364 6142	1 0236	13 56.1
	15	3 25 35.07	2 51.27	19 13 42.7	10 50.9	0.365 6378	1 0156	13 55.0
	16	3 28 26.34	2 51.48	+19 24 33.6	10 40.1	0.366 6534	1 0077	13 53.9
	17	3 31 17.82	2 51.67	19 35 13.7	10 29.3	0.367 6611	9997	13 52.8
	18	3 34 9.49	2 51.88	19 45 43.0	10 18.5	0.368 6608	9917	13 51.7
	19	3 37 1.37	2 52.07	19 56 1.5	10 7.6	0.369 6525	9836	13 50.7
	20	3 39 53.44	2 52.27	20 6 9.1	9 56.6	0.370 6361	9755	13 49.6
	21	3 42 45.71	2 52.47	20 16 5.7	9 45.5	0.371 6116	9673	13 48.5
	22	3 45 38.18	2 52.66	+20 25 51.2	9 34.3	0.372 5789	9590	13 47.4
	23	3 48 30.84	2 52.85	20 35 25.5	9 23.1	0.373 5379	9509	13 46.4
	24	3 51 23.69	2 53.05	20 44 48.6	9 11.9	0.374 4888	9425	13 45.3
	25	3 54 16.74	2 53.23	20 54 0.5	9 0.5	0.375 4313	9341	13 44.3
	26	3 57 9.97	2 53.42	21 3 1.0	8 49.0	0.376 3654	9256	13 43.2
	27	4 0 3.39	2 53.59	21 11 50.0	8 37.5	0.377 2910	9170	13 42.2
	28	4 2 56.98	2 53.76	+21 20 27.5	8 26.0	0.378 2080	9085	13 41.1
	29	4 5 50.74	2 53.93	21 28 53.5	8 14.3	0.379 1165	8997	13 40.1
	30	4 8 44.67	2 54.08	21 37 7.8	8 2.6	0.380 0162	8910	13 39.1
Mai	1	4 11 38.75	2 54.24	21 45 10.4	7 50.9	0.380 9072	8821	13 38.0
	2	4 14 32.99	2 54.38	21 53 1.3	7 39.0	0.381 7893	8733	13 37.0
	3	4 17 27.37		+22 0 40.3		0.382 6626		13 35.9

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938	h m s	m s	° ′ ″	′ ″			h m
Mai 3	4 17 27.37	2 54.51	+22 0 40.3	7 27.1	0.382 6626	8644	13 35.9
4	4 20 21.88	2 54.65	22 8 7.4	7 15.3	0.383 5270	8557	13 34.9
5	4 23 16.53	2 54.77	22 15 22.7	7 3.2	0.384 3827	8469	13 33.9
6	4 26 11.30	2 54.89	22 22 25.9	6 51.3	0.385 2296	8382	13 32.8
7	4 29 6.19	2 54.99	22 29 17.2	6 39.1	0.386 0678	8295	13 31.8
8	4 32 1.18	2 55.10	22 35 56.3	6 27.0	0.386 8973	8208	13 30.8
9	4 34 56.28	2 55.18	+22 42 23.3	6 14.9	0.387 7181	8122	13 29.8
10	4 37 51.46	2 55.28	22 48 38.2	6 2.7	0.388 5303	8035	13 28.7
11	4 40 46.74	2 55.35	22 54 40.9	5 50.4	0.389 3338	7950	13 27.7
12	4 43 42.09	2 55.44	23 0 31.3	5 38.1	0.390 1288	7864	13 26.7
13	4 46 37.53	2 55.50	23 6 9.4	5 25.9	0.390 9152	7779	13 25.7
14	4 49 33.03	2 55.57	23 11 35.3	5 13.5	0.391 6931	7694	13 24.7
15	4 52 28.60	2 55.64	+23 16 48.8	5 1.2	0.392 4625	7608	13 23.6
16	4 55 24.24	2 55.69	23 21 50.0	4 48.8	0.393 2233	7523	13 22.6
17	4 58 19.93	2 55.73	23 26 38.8	4 36.4	0.393 9756	7438	13 21.6
18	5 1 15.66	2 55.78	23 31 15.2	4 24.0	0.394 7194	7351	13 20.6
19	5 4 11.44	2 55.82	23 35 39.2	4 11.6	0.395 4545	7265	13 19.6
20	5 7 7.26	2 55.85	23 39 50.8	3 59.0	0.396 1810	7179	13 18.6
21	5 10 3.11	2 55.87	+23 43 49.8	3 46.6	0.396 8989	7092	13 17.6
22	5 12 58.98	2 55.88	23 47 36.4	3 34.1	0.397 6081	7005	13 16.6
23	5 15 54.86	2 55.90	23 51 10.5	3 21.6	0.398 3086	6917	13 15.6
24	5 18 50.76	2 55.89	23 54 32.1	3 9.1	0.399 0003	6828	13 14.5
25	5 21 46.65	2 55.89	23 57 41.2	2 56.6	0.399 6831	6738	13 13.5
26	5 24 42.54	2 55.88	24 0 37.8	2 44.2	0.400 3569	6647	13 12.5
27	5 27 38.42	2 55.85	+24 3 22.0	2 31.6	0.401 0216	6556	13 11.5
28	5 30 34.27	2 55.82	24 5 53.6	2 19.0	0.401 6772	6464	13 10.5
29	5 33 30.09	2 55.77	24 8 12.6	2 6.6	0.402 3236	6372	13 9.5
30	5 36 25.86	2 55.72	24 10 19.2	1 54.1	0.402 9608	6279	13 8.5
31	5 39 21.58	2 55.65	24 12 13.3	1 41.6	0.403 5887	6187	13 7.5
Juni 1	5 42 17.23	2 55.58	24 13 54.9	1 29.2	0.404 2074	6094	13 6.4
2	5 45 12.81	2 55.49	+24 15 24.1	1 16.7	0.404 8168	6001	13 5.4
3	5 48 8.30	2 55.40	24 16 40.8	1 4.4	0.405 4169	5908	13 4.4
4	5 51 3.70	2 55.29	24 17 45.2	0 52.0	0.406 0077	5816	13 3.4
5	5 53 58.99	2 55.17	24 18 37.2	0 39.5	0.406 5893	5725	13 2.4
6	5 56 54.16	2 55.05	24 19 16.7	0 27.3	0.407 1618	5634	13 1.4
7	5 59 49.21	2 54.92	24 19 44.0	0 14.9	0.407 7252	5543	13 0.3
8	6 2 44.13	2 54.78	+24 19 58.9	0 2.5	0.408 2795	5452	12 59.3
9	6 5 38.91	2 54.63	24 20 1.4	0 9.7	0.408 8247	5363	12 58.3
10	6 8 33.54	2 54.48	24 19 51.7	0 21.9	0.409 3610	5272	12 57.2
11	6 11 28.02	2 54.32	24 19 29.8	0 34.1	0.409 8882	5182	12 56.2
12	6 14 22.34	2 54.16	24 18 55.7	0 46.3	0.410 4064	5092	12 55.2
13	6 17 16.50		+24 18 9.4		0.410 9156		12 54.1

Tag		0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938		h m s	m s	° ′ ″	′ ″			h m
Juni	13	6 17 16.50	2 53.99	+24 18 9.4	0 58.4	0.410 9156	5001	12 54.1
	14	6 20 10.49	2 53.80	24 17 11.0	1 10.5	0.411 4157	4911	12 53.1
	15	6 23 4.29	2 53.61	24 16 0.5	1 22.5	0.411 9068	4821	12 52.0
	16	6 25 57.90	2 53.42	24 14 38.0	1 34.5	0.412 3889	4729	12 51.0
	17	6 28 51.32	2 53.23	24 13 3.5	1 46.5	0.412 8618	4639	12 49.9
	18	6 31 44.55	2 53.03	24 11 17.0	1 58.4	0.413 3257	4548	12 48.9
	19	6 34 37.58	2 52.81	+24 9 18.6	2 10.3	0.413 7805	4455	12 47.8
	20	6 37 30.39	2 52.61	24 7 8.3	2 22.1	0.414 2260	4364	12 46.8
	21	6 40 23.00	2 52.38	24 4 46.2	2 33.8	0.414 6624	4270	12 45.7
	22	6 43 15.38	2 52.15	24 2 12.4	2 45.5	0.415 0894	4177	12 44.6
	23	6 46 7.53	2 51.91	23 59 26.9	2 57.1	0.415 5071	4081	12 43.5
	24	6 48 59.44	2 51.67	23 56 29.8	3 8.7	0.415 9152	3986	12 42.5
	25	6 51 51.11	2 51.42	+23 53 21.1	3 20.1	0.416 3138	3890	12 41.4
	26	6 54 42.53	2 51.16	23 50 1.0	3 31.6	0.416 7028	3792	12 40.3
	27	6 57 33.69	2 50.90	23 46 29.4	3 43.0	0.417 0820	3695	12 39.2
	28	7 0 24.59	2 50.62	23 42 46.4	3 54.2	0.417 4515	3598	12 38.1
	29	7 3 15.21	2 50.33	23 38 52.2	4 5.4	0.417 8113	3500	12 37.0
	30	7 6 5.54	2 50.05	23 34 46.8	4 16.6	0.418 1613	3402	12 35.9
Juli	1	7 8 55.59	2 49.74	+23 30 30.2	4 27.6	0.418 5015	3305	12 34.8
	2	7 11 45.33	2 49.44	23 26 2.6	4 38.5	0.418 8320	3209	12 33.7
	3	7 14 34.77	2 49.12	23 21 24.1	4 49.5	0.419 1529	3111	12 32.5
	4	7 17 23.89	2 48.81	23 16 34.6	5 0.3	0.419 4640	3014	12 31.4
	5	7 20 12.70	2 48.49	23 11 34.3	5 11.0	0.419 7654	2918	12 30.3
	6	7 23 1.19	2 48.17	23 6 23.3	5 21.7	0.420 0572	2822	12 29.2
	7	7 25 49.36	2 47.83	+23 1 1.6	5 32.3	0.420 3394	2726	12 28.0
	8	7 28 37.19	2 47.50	22 55 29.3	5 42.8	0.420 6120	2630	12 26.9
	9	7 31 24.69	2 47.16	22 49 46.5	5 53.2	0.420 8750	2533	12 25.7
	10	7 34 11.85	2 46.82	22 43 53.3	6 3.5	0.421 1283	2438	12 24.6
	11	7 36 58.67	2 46.48	22 37 49.8	6 13.8	0.421 3721	2343	12 23.4
	12	7 39 45.15	2 46.13	22 31 36.0	6 23.9	0.421 6064	2247	12 22.2
	13	7 42 31.28	2 45.79	+22 25 12.1	6 34.0	0.421 8311	2152	12 21.1
	14	7 45 17.07	2 45.44	22 18 38.1	6 44.1	0.422 0463	2055	12 19.9
	15	7 48 2.51	2 45.10	22 11 54.0	6 53.9	0.422 2518	1960	12 18.7
	16	7 50 47.61	2 44.74	22 5 0.1	7 3.8	0.422 4478	1862	12 17.5
	17	7 53 32.35	2 44.39	21 57 56.3	7 13.6	0.422 6340	1765	12 16.3
	18	7 56 16.74	2 44.03	21 50 42.7	7 23.2	0.422 8105	1667	12 15.1
	19	7 59 0.77	2 43.68	+21 43 19.5	7 32.8	0.422 9772	1568	12 13.9
	20	8 1 44.45	2 43.32	21 35 46.7	7 42.2	0.423 1340	1469	12 12.6
	21	8 4 27.77	2 42.95	21 28 4.5	7 51.6	0.423 2809	1370	12 11.4
	22	8 7 10.72	2 42.60	21 20 12.9	8 0.8	0.423 4179	1269	12 10.2
	23	8 9 53.32	2 42.24	21 12 12.1	8 10.1	0.423 5448	1167	12 9.0
	24	8 12 35.56		+21 4 2.0		0.423 6615		12 7.7

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938	h m s	m s	° ′ ″	′ ″			h m
Juli 24	8 12 35.56	2 41.87	+21 4 2.0	8 19.1	0.423 6615	1064	12 7.7
25	8 15 17.43	2 41.51	20 55 42.9	8 28.1	0.423 7679	961	12 6.5
26	8 17 58.94	2 41.13	20 47 14.8	8 36.9	0.423 8640	857	12 5.2
27	8 20 40.07	2 40.76	20 38 37.9	8 45.7	0.423 9497	753	12 4.0
28	8 23 20.83	2 40.38	20 29 52.2	8 54.4	0.424 0250	649	12 2.7
29	8 26 1.21	2 40.00	20 20 57.8	9 2.9	0.424 0899	545	12 1.4
30	8 28 41.21	2 39.62	+20 11 54.9	9 11.3	0.424 1444	441	12 0.1
31	8 31 20.83	2 39.24	20 2 43.6	9 19.7	0.424 1885	337	11 58.9
Aug. 1	8 34 0.07	2 38.85	19 53 23.9	9 27.9	0.424 2222	234	11 57.6
2	8 36 38.92	2 38.47	19 43 56.0	9 36.0	0.424 2456	130	11 56.3
3	8 39 17.39	2 38.09	19 34 20.0	9 44.1	0.424 2586	27	11 55.0
4	8 41 55.48	2 37.70	19 24 35.9	9 52.0	0.424 2613	76	11 53.7
5	8 44 33.18	2 37.32	+19 14 43.9	9 59.8	0.424 2537	178	11 52.4
6	8 47 10.50	2 36.94	19 4 44.1	10 7.5	0.424 2359	280	11 51.0
7	8 49 47.44	2 36.57	18 54 36.6	10 15.2	0.424 2079	384	11 49.7
8	8 52 24.01	2 36.19	18 44 21.4	10 22.7	0.424 1695	486	11 48.4
9	8 55 0.20	2 35.81	18 33 58.7	10 30.2	0.424 1209	588	11 47.0
10	8 57 36.01	2 35.45	18 23 28.5	10 37.6	0.424 0621	692	11 45.7
11	9 0 11.46	2 35.09	+18 12 50.9	10 44.8	0.423 9929	795	11 44.3
12	9 2 46.55	2 34.72	18 2 6.1	10 52.0	0.423 9134	899	11 43.0
13	9 5 21.27	2 34.35	17 51 14.1	10 59.1	0.423 8235	1002	11 41.6
14	9 7 55.62	2 34.00	17 40 15.0	11 6.1	0.423 7233	1106	11 40.2
15	9 10 29.62	2 33.65	17 29 8.9	11 12.9	0.423 6127	1211	11 38.9
16	9 13 3.27	2 33.29	17 17 56.0	11 19.6	0.423 4916	1317	11 37.5
17	9 15 36.56	2 32.95	+17 6 36.4	11 26.4	0.423 3599	1423	11 36.1
18	9 18 9.51	2 32.60	16 55 10.0	11 32.9	0.423 2176	1530	11 34.7
19	9 20 42.11	2 32.26	16 43 37.1	11 39.4	0.423 0646	1639	11 33.3
20	9 23 14.37	2 31.93	16 31 57.7	11 45.8	0.422 9007	1748	11 31.9
21	9 25 46.30	2 31.58	16 20 11.9	11 52.0	0.422 7259	1858	11 30.5
22	9 28 17.88	2 31.25	16 8 19.9	11 58.1	0.422 5401	1969	11 29.1
23	9 30 49.13	2 30.92	+15 56 21.8	12 4.2	0.422 3432	2081	11 27.6
24	9 33 20.05	2 30.58	15 44 17.6	12 10.1	0.422 1351	2192	11 26.2
25	9 35 50.63	2 30.26	15 32 7.5	12 16.0	0.421 9159	2304	11 24.8
26	9 38 20.89	2 29.92	15 19 51.5	12 21.6	0.421 6855	2416	11 23.3
27	9 40 50.81	2 29.60	15 7 29.9	12 27.3	0.421 4439	2528	11 21.9
28	9 43 20.41	2 29.27	14 55 2.6	12 32.7	0.421 1911	2641	11 20.4
29	9 45 49.68	2 28.94	+14 42 29.9	12 38.1	0.420 9270	2753	11 19.0
30	9 48 18.62	2 28.63	14 29 51.8	12 43.4	0.420 6517	2865	11 17.5
31	9 50 47.25	2 28.30	14 17 8.4	12 48.6	0.420 3652	2978	11 16.1
Sept. 1	9 53 15.55	2 28.00	14 4 19.8	12 53.6	0.420 0674	3089	11 14.6
2	9 55 43.55	2 27.69	13 51 26.2	12 58.6	0.419 7585	3201	11 13.1
3	9 58 11.24		+13 38 27.6		0.419 4384		11 11.6

Tag	0ʰ Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1938	h m s	m s	° ′ ″	′ ″			h m
Sept. 3	9 58 11.24	2 27.38	+13 38 27.6	13 3.5	0.419 4384	3313	11 11.6
4	10 0 38.62	2 27.08	13 25 24.1	13 8.3	0.419 1071	3424	11 10.1
5	10 3 5.70	2 26.79	13 12 15.8	13 13.0	0.418 7647	3535	11 8.6
6	10 5 32.49	2 26.50	12 59 2.8	13 17.6	0.418 4112	3648	11 7.1
7	10 7 58.99	2 26.22	12 45 45.2	13 22.2	0.418 0464	3759	11 5.6
8	10 10 25.21	2 25.94	12 32 23.0	13 26.7	0.417 6705	3871	11 4.1
9	10 12 51.15	2 25.67	+12 18 56.3	13 31.0	0.417 2834	3983	11 2.6
10	10 15 16.82	2 25.41	12 5 25.3	13 35.2	0.416 8851	4096	11 1.1
11	10 17 42.23	2 25.15	11 51 50.1	13 39.4	0.416 4755	4210	10 59.6
12	10 20 7.38	2 24.90	11 38 10.7	13 43.5	0.416 0545	4323	10 58.1
13	10 22 32.28	2 24.65	11 24 27.2	13 47.4	0.415 6222	4439	10 56.5
14	10 24 56.93	2 24.41	11 10 39.8	13 51.3	0.415 1783	4553	10 55.0
15	10 27 21.34	2 24.17	+10 56 48.5	13 55.2	0.414 7230	4670	10 53.5
16	10 29 45.51	2 23.94	10 42 53.3	13 58.8	0.414 2560	4787	10 51.9
17	10 32 9.45	2 23.72	10 28 54.5	14 2.4	0.413 7773	4906	10 50.4
18	10 34 33.17	2 23.50	10 14 52.1	14 5.9	0.413 2867	5025	10 48.8
19	10 36 56.67	2 23.28	10 0 46.2	14 9.2	0.412 7842	5146	10 47.3
20	10 39 19.95	2 23.07	9 46 37.0	14 12.6	0.412 2696	5267	10 45.7
21	10 41 43.02	2 22.86	+ 9 32 24.4	14 15.7	0.411 7429	5389	10 44.2
22	10 44 5.88	2 22.65	9 18 8.7	14 18.8	0.411 2040	5510	10 42.6
23	10 46 28.53	2 22.45	9 3 49.9	14 21.8	0.410 6530	5633	10 41.0
24	10 48 50.98	2 22.25	8 49 28.1	14 24.6	0.410 0897	5756	10 39.5
25	10 51 13.23	2 22.06	8 35 3.5	14 27.4	0.409 5141	5878	10 37.9
26	10 53 35.29	2 21.86	8 20 36.1	14 30.0	0.408 9263	6001	10 36.3
27	10 55 57.15	2 21.67	+ 8 6 6.1	14 32.6	0.408 3262	6125	10 34.7
28	10 58 18.82	2 21.49	7 51 33.5	14 35.1	0.407 7137	6247	10 33.2
29	11 0 40.31	2 21.32	7 36 58.4	14 37.4	0.407 0890	6369	10 31.6
30	11 3 1.63	2 21.14	7 22 21.0	14 39.7	0.406 4521	6492	10 30.0
Okt. 1	11 5 22.77	2 20.97	7 7 41.3	14 42.0	0.405 8029	6614	10 28.4
2	11 7 43.74	2 20.82	6 52 59.3	14 44.0	0.405 1415	6736	10 26.8
3	11 10 4.56	2 20.66	+ 6 38 15.3	14 46.0	0.404 4679	6859	10 25.2
4	11 12 25.22	2 20.51	6 23 29.3	14 48.0	0.403 7820	6981	10 23.6
5	11 14 45.73	2 20.36	6 8 41.3	14 49.9	0.403 0839	7105	10 22.0
6	11 17 6.09	2 20.23	5 53 51.4	14 51.6	0.402 3734	7227	10 20.4
7	11 19 26.32	2 20.11	5 38 59.8	14 53.3	0.401 6507	7351	10 18.8
8	11 21 46.43	2 19.98	5 24 6.5	14 54.8	0.400 9156	7474	10 17.2
9	11 24 6.41	2 19.86	+ 5 9 11.7	14 56.4	0.400 1682	7599	10 15.6
10	11 26 26.27	2 19.76	4 54 15.3	14 57.8	0.399 4083	7723	10 14.0
11	11 28 46.03	2 19.66	4 39 17.5	14 59.2	0.398 6360	7848	10 12.4
12	11 31 5.69	2 19.57	4 24 18.3	15 0.3	0.397 8512	7975	10 10.8
13	11 33 25.26	2 19.48	4 9 18.0	15 1.6	0.397 0537	8103	10 9.2
14	11 35 44.74		+ 3 54 16.4		0.396 2434		10 7.5

Tag	0ʰ Welt-Zeit						Obere Kulmination in Greenwich
	Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1938	h m s	m s	° ′ ″	′ ″			h m
Okt. 14	11 35 44.74	2 19.40	+3 54 16.4	15 2.6	0.396 2434	8231	10 7.5
15	11 38 4.14	2 19.33	3 39 13.8	15 3.5	0.395 4203	8360	10 5.9
16	11 40 23.47	2 19.25	3 24 10.3	15 4.5	0.394 5843	8490	10 4.3
17	11 42 42.72	2 19.18	3 9 5.8	15 5.3	0.393 7353	8622	10 2.7
18	11 45 1.90	2 19.13	2 54 0.5	15 6.0	0.392 8731	8754	10 1.1
19	11 47 21.03	2 19.06	2 38 54.5	15 6.5	0.391 9977	8887	9 59.4
20	11 49 40.09	2 19.01	+2 23 48.0	15 7.0	0.391 1090	9020	9 57.8
21	11 51 59.10	2 18.95	2 8 41.0	15 7.4	0.390 2070	9156	9 56.2
22	11 54 18.05	2 18.91	1 53 33.6	15 7.7	0.389 2914	9290	9 54.6
23	11 56 36.96	2 18.87	1 38 25.9	15 7.8	0.388 3624	9425	9 52.9
24	11 58 55.83	2 18.83	1 23 18.1	15 7.8	0.387 4199	9560	9 51.3
25	12 1 14.66	2 18.79	1 8 10.3	15 7.8	0.386 4639	9696	9 49.7
26	12 3 33.45	2 18.77	+0 53 2.5	15 7.8	0.385 4943	9830	9 48.0
27	12 5 52.22	2 18.73	0 37 54.7	15 7.5	0.384 5113	9965	9 46.4
28	12 8 10.95	2 18.71	0 22 47.2	15 7.3	0.383 5148	1 0100	9 44.8
29	12 10 29.66	2 18.70	+0 7 39.9	15 7.0	0.382 5048	1 0234	9 43.2
30	12 12 48.36	2 18.68	−0 7 27.1	15 6.5	0.381 4814	1 0368	9 41.5
31	12 15 7.04	2 18.68	0 22 33.6	15 5.9	0.380 4446	1 0504	9 39.9
Nov. 1	12 17 25.72	2 18.68	−0 37 39.5	15 5.2	0.379 3942	1 0640	9 38.3
2	12 19 44.40	2 18.68	0 52 44.7	15 4.5	0.378 3302	1 0775	9 36.6
3	12 22 3.08	2 18.70	1 7 49.2	15 3.6	0.377 2527	1 0910	9 35.0
4	12 24 21.78	2 18.71	1 22 52.8	15 2.8	0.376 1617	1 1045	9 33.4
5	12 26 40.49	2 18.74	1 37 55.6	15 1.8	0.375 0572	1 1181	9 31.8
6	12 28 59.23	2 18.78	1 52 57.4	15 0.7	0.373 9391	1 1317	9 30.1
7	12 31 18.01	2 18.81	−2 7 58.1	14 59.7	0.372 8074	1 1454	9 28.5
8	12 33 36.82	2 18.86	2 22 57.8	14 58.4	0.371 6620	1 1591	9 26.9
9	12 35 55.68	2 18.91	2 37 56.2	14 57.1	0.370 5029	1 1729	9 25.3
10	12 38 14.59	2 18.98	2 52 53.3	14 55.7	0.369 3300	1 1868	9 23.6
11	12 40 33.57	2 19.04	3 7 49.0	14 54.2	0.368 1432	1 2009	9 22.0
12	12 42 52.61	2 19.10	3 22 43.2	14 52.6	0.366 9423	1 2150	9 20.4
13	12 45 11.71	2 19.18	−3 37 35.8	14 50.9	0.365 7273	1 2293	9 18.8
14	12 47 30.89	2 19.25	3 52 26.7	14 49.2	0.364 4980	1 2437	9 17.2
15	12 49 50.14	2 19.34	4 7 15.9	14 47.3	0.363 2543	1 2582	9 15.5
16	12 52 9.48	2 19.42	4 22 3.2	14 45.3	0.361 9961	1 2727	9 13.9
17	12 54 28.90	2 19.51	4 36 48.5	14 43.3	0.360 7234	1 2874	9 12.3
18	12 56 48.41	2 19.59	4 51 31.8	14 41.1	0.359 4360	1 3022	9 10.7
19	12 59 8.00	2 19.69	−5 6 12.9	14 38.9	0.358 1338	1 3169	9 9.1
20	13 1 27.69	2 19.78	5 20 51.8	14 36.5	0.356 8169	1 3317	9 7.4
21	13 3 47.47	2 19.88	5 35 28.3	14 34.0	0.355 4852	1 3465	9 5.8
22	13 6 7.35	2 19.98	5 50 2.3	14 31.5	0.354 1387	1 3614	9 4.2
23	13 8 27.33	2 20.07	6 4 33.8	14 28.7	0.352 7773	1 3763	9 2.6
24	13 10 47.40		−6 19 2.5		0.351 4010		9 1.0

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		0ʰ Welt-Zeit: Scheinbare Deklination		0ʰ Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1938	h m s	m s	° ′ ″	′ ″			h m
Nov. 24	13 10 47.40	2 20.19	− 6 19 2.5	14 26.1	0.351 4010	1 3910	9 1.0
25	13 13 7.59	2 20.29	6 33 28.6	14 23.1	0.350 0100	1 4058	8 59.4
26	13 15 27.88	2 20.41	6 47 51.7	14 20.2	0.348 6042	1 4206	8 57.8
27	13 17 48.29	2 20.53	7 2 11.9	14 17.1	0.347 1836	1 4354	8 56.2
28	13 20 8.82	2 20.64	7 16 29.0	14 14.1	0.345 7482	1 4502	8 54.6
29	13 22 29.46	2 20.77	7 30 43.1	14 10.8	0.344 2980	1 4651	8 53.0
30	13 24 50.23	2 20.89	− 7 44 53.9	14 7.6	0.342 8329	1 4799	8 51.4
Dez. 1	13 27 11.12	2 21.02	7 59 1.5	14 4.2	0.341 3530	1 4947	8 49.8
2	13 29 32.14	2 21.16	8 13 5.7	14 0.8	0.339 8583	1 5096	8 48.2
3	13 31 53.30	2 21.31	8 27 6.5	13 57.3	0.338 3487	1 5243	8 46.7
4	13 34 14.61	2 21.46	8 41 3.8	13 53.6	0.336 8244	1 5393	8 45.1
5	13 36 36.07	2 21.61	8 54 57.4	13 49.9	0.335 2851	1 5542	8 43.5
6	13 38 57.68	2 21.77	− 9 8 47.3	13 46.1	0.333 7309	1 5692	8 41.9
7	13 41 19.45	2 21.93	9 22 33.4	13 42.2	0.332 1617	1 5842	8 40.3
8	13 43 41.38	2 22.10	9 36 15.6	13 38.3	0.330 5775	1 5994	8 38.7
9	13 46 3.48	2 22.27	9 49 53.9	13 34.3	0.328 9781	1 6147	8 37.2
10	13 48 25.75	2 22.45	10 3 28.2	13 30.1	0.327 3634	1 6301	8 35.6
11	13 50 48.20	2 22.63	10 16 58.3	13 25.9	0.325 7333	1 6457	8 34.1
12	13 53 10.83	2 22.80	−10 30 24.2	13 21.6	0.324 0876	1 6614	8 32.5
13	13 55 33.63	2 22.99	10 43 45.8	13 17.2	0.322 4262	1 6771	8 30.9
14	13 57 56.62	2 23.17	10 57 3.0	13 12.7	0.320 7491	1 6930	8 29.4
15	14 0 19.79	2 23.35	11 10 15.7	13 8.1	0.319 0561	1 7090	8 27.8
16	14 2 43.14	2 23.54	11 23 23.8	13 3.4	0.317 3471	1 7249	8 26.3
17	14 5 6.68	2 23.72	11 36 27.2	12 58.5	0.315 6222	1 7410	8 24.7
18	14 7 30.40	2 23.91	−11 49 25.7	12 53.7	0.313 8812	1 7572	8 23.2
19	14 9 54.31	2 24.08	12 2 19.4	12 48.7	0.312 1240	1 7735	8 21.6
20	14 12 18.39	2 24.27	12 15 8.1	12 43.6	0.310 3505	1 7897	8 20.1
21	14 14 42.66	2 24.44	12 27 51.7	12 38.4	0.308 5608	1 8059	8 18.6
22	14 17 7.10	2 24.63	12 40 30.1	12 33.1	0.306 7549	1 8222	8 17.0
23	14 19 31.73	2 24.81	12 53 3.2	12 27.8	0.304 9327	1 8383	8 15.5
24	14 21 56.54	2 24.99	−13 5 31.0	12 22.4	0.303 0944	1 8544	8 14.0
25	14 24 21.53	2 25.17	13 17 53.4	12 16.9	0.301 2400	1 8707	8 12.4
26	14 26 46.70	2 25.36	13 30 10.3	12 11.2	0.299 3693	1 8868	8 10.9
27	14 29 12.06	2 25.54	13 42 21.5	12 5.6	0.297 4825	1 9030	8 9.4
28	14 31 37.60	2 25.73	13 54 27.1	11 59.7	0.295 5795	1 9192	8 7.9
29	14 34 3.33	2 25.92	14 6 26.8	11 53.9	0.293 6603	1 9353	8 6.4
30	14 36 29.25	2 26.10	−14 18 20.7	11 48.0	0.291 7250	1 9515	8 4.9
31	14 38 55.35	2 26.30	14 30 8.7	11 42.1	0.289 7735	1 9676	8 3.4
32	14 41 21.65		−14 41 50.8		0.287 8059		8 1.9

Jupiter 1938

Tag		0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938		h m s	s	° ′ ″	′ ″			h m
Jan.	0	20 19 13.33	56.61	−20 7 14.3	3 3.0	0.776 9306	4308	13 41.5
	1	20 20 9.94	56.74	20 4 11.3	3 4.7	0.777 3614	4158	13 38.5
	2	20 21 6.68	56.87	20 1 6.6	3 6.2	0.777 7772	4008	13 35.5
	3	20 22 3.55	56.99	19 58 0.4	3 7.8	0.778 1780	3857	13 32.5
	4	20 23 0.54	57.11	19 54 52.6	3 9.3	0.778 5637	3706	13 29.5
	5	20 23 57.65	57.21	19 51 43.3	3 10.9	0.778 9343	3556	13 26.6
	6	20 24 54.86	57.32	−19 48 32.4	3 12.5	0.779 2899	3406	13 23.6
	7	20 25 52.18	57.41	19 45 19.9	3 13.9	0.779 6305	3255	13 20.6
	8	20 26 49.59	57.49	19 42 6.0	3 15.5	0.779 9560	3104	13 17.6
	9	20 27 47.08	57.58	19 38 50.5	3 16.9	0.780 2664	2954	13 14.6
	10	20 28 44.66	57.65	19 35 33.6	3 18.4	0.780 5618	2803	13 11.7
	11	20 29 42.31	57.72	19 32 15.2	3 19.8	0.780 8421	2652	13 8.7
	12	20 30 40.03	57.78	−19 28 55.4	3 21.2	0.781 1073	2501	13 5.7
	13	20 31 37.81	57.84	19 25 34.2	3 22.6	0.781 3574	2351	13 2.8
	14	20 32 35.65	57.89	19 22 11.6	3 24.0	0.781 5925	2201	12 59.8
	15	20 33 33.54	57.93	19 18 47.6	3 25.3	0.781 8126	2050	12 56.8
	16	20 34 31.47	57.98	19 15 22.3	3 26.7	0.782 0176	1900	12 53.8
	17	20 35 29.45	58.01	19 11 55.6	3 28.1	0.782 2076	1750	12 50.9
	18	20 36 27.46	58.05	−19 8 27.5	3 29.3	0.782 3826	1600	12 47.9
	19	20 37 25.51	58.07	19 4 58.2	3 30.7	0.782 5426	1449	12 44.9
	20	20 38 23.58	58.09	19 1 27.5	3 31.9	0.782 6875	1298	12 42.0
	21	20 39 21.67	58.12	18 57 55.6	3 33.2	0.782 8173	1147	12 39.0
	22	20 40 19.79	58.12	18 54 22.4	3 34.4	0.782 9320	996	12 36.0
	23	20 41 17.91	58.13	18 50 48.0	3 35.6	0.783 0316	844	12 33.1
	24	20 42 16.04	58.13	−18 47 12.4	3 36.9	0.783 1160	692	12 30.1
	25	20 43 14.17	58.12	18 43 35.5	3 37.9	0.783 1852	540	12 27.1
	26	20 44 12.29	58.11	18 39 57.6	3 39.1	0.783 2392	387	12 24.2
	27	20 45 10.40	58.10	18 36 18.5	3 40.3	0.783 2779	235	12 21.2
	28	20 46 8.50	58.07	18 32 38.2	3 41.3	0.783 3014	83	12 18.2
	29	20 47 6.57	58.04	18 28 56.9	3 42.4	0.783 3097	70	12 15.3
	30	20 48 4.61	58.01	−18 25 14.5	3 43.4	0.783 3027	223	12 12.3
	31	20 49 2.62	57.97	18 21 31.1	3 44.3	0.783 2804	375	12 9.3
Febr.	1	20 50 0.59	57.92	18 17 46.8	3 45.3	0.783 2429	528	12 6.3
	2	20 50 58.51	57.86	18 14 1.5	3 46.3	0.783 1901	680	12 3.4
	3	20 51 56.37	57.81	18 10 15.2	3 47.2	0.783 1221	832	12 0.4
	4	20 52 54.18	57.74	18 6 28.0	3 48.0	0.783 0389	984	11 57.4
	5	20 53 51.92	57.67	−18 2 40.0	3 48.9	0.782 9405	1136	11 54.5
	6	20 54 49.59	57.59	17 58 51.1	3 49.7	0.782 8269	1287	11 51.5
	7	20 55 47.18	57.52	17 55 1.4	3 50.4	0.782 6982	1439	11 48.5
	8	20 56 44.70	57.42	17 51 11.0	3 51.3	0.782 5543	1590	11 45.5
	9	20 57 42.12	57.33	17 47 19.7	3 51.9	0.782 3953	1740	11 42.5
	10	20 58 39.45		−17 43 27.8		0.782 2213		11 39.6

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938	h m s	s	° ′ ″	′ ″			h m
Febr. 10	20 58 39.45	57.24	−17 43 27.8	3 52.7	0.782 2213	1889	11 39.6
11	20 59 36.69	57.13	17 39 35.1	3 53.3	0.782 0324	2039	11 36.6
12	21 0 33.82	57.03	17 35 41.8	3 54.0	0.781 8285	2188	11 33.6
13	21 1 30.85	56.91	17 31 47.8	3 54.6	0.781 6097	2337	11 30.6
14	21 2 27.76	56.80	17 27 53.2	3 55.1	0.781 3760	2485	11 27.6
15	21 3 24.56	56.68	17 23 58.1	3 55.8	0.781 1275	2634	11 24.6
16	21 4 21.24	56.56	−17 20 2.3	3 56.3	0.780 8641	2783	11 21.6
17	21 5 17.80	56.43	17 16 6.0	3 56.7	0.780 5858	2931	11 18.6
18	21 6 14.23	56.30	17 12 9.3	3 57.2	0.780 2927	3080	11 15.6
19	21 7 10.53	56.16	17 8 12.1	3 57.7	0.779 9847	3227	11 12.6
20	21 8 6.69	56.02	17 4 14.4	3 58.1	0.779 6620	3376	11 9.6
21	21 9 2.71	55.87	17 0 16.3	3 58.5	0.779 3244	3525	11 6.6
22	21 9 58.58	55.73	−16 56 17.8	3 58.8	0.778 9719	3672	11 3.6
23	21 10 54.31	55.56	16 52 19.0	3 59.1	0.778 6047	3820	11 0.6
24	21 11 49.87	55.40	16 48 19.9	3 59.4	0.778 2227	3969	10 57.6
25	21 12 45.27	55.23	16 44 20.5	3 59.6	0.777 8258	4116	10 54.6
26	21 13 40.50	55.06	16 40 20.9	3 59.8	0.777 4142	4264	10 51.6
27	21 14 35.56	54.89	16 36 21.1	3 59.9	0.776 9878	4412	10 48.6
28	21 15 30.45	54.70	−16 32 21.2	4 0.0	0.776 5466	4559	10 45.5
März 1	21 16 25.15	54.51	16 28 21.2	4 0.1	0.776 0907	4706	10 42.5
2	21 17 19.66	54.31	16 24 21.1	4 0.2	0.775 6201	4852	10 39.5
3	21 18 13.97	54.11	16 20 20.9	4 0.1	0.775 1349	4998	10 36.4
4	21 19 8.08	53.91	16 16 20.8	4 0.1	0.774 6351	5144	10 33.4
5	21 20 1.99	53.68	16 12 20.7	3 59.9	0.774 1207	5289	10 30.4
6	21 20 55.67	53.47	−16 8 20.8	3 59.9	0.773 5918	5433	10 27.3
7	21 21 49.14	53.25	16 4 20.9	3 59.7	0.773 0485	5577	10 24.3
8	21 22 42.39	53.02	16 0 21.2	3 59.4	0.772 4908	5720	10 21.2
9	21 23 35.41	52.79	15 56 21.8	3 59.2	0.771 9188	5861	10 18.2
10	21 24 28.20	52.55	15 52 22.6	3 59.0	0.771 3327	6003	10 15.1
11	21 25 20.75	52.32	15 48 23.6	3 58.6	0.770 7324	6144	10 12.1
12	21 26 13.07	52.06	−15 44 25.0	3 58.3	0.770 1180	6284	10 9.0
13	21 27 5.13	51.82	15 40 26.7	3 57.9	0.769 4896	6424	10 5.9
14	21 27 56.95	51.56	15 36 28.8	3 57.5	0.768 8472	6562	10 2.9
15	21 28 48.51	51.30	15 32 31.3	3 57.0	0.768 1910	6701	9 59.8
16	21 29 39.81	51.04	15 28 34.3	3 56.6	0.767 5209	6839	9 56.7
17	21 30 30.85	50.77	15 24 37.7	3 56.0	0.766 8370	6977	9 53.6
18	21 31 21.62	50.50	−15 20 41.7	3 55.4	0.766 1393	7114	9 50.5
19	21 32 12.12	50.23	15 16 46.3	3 54.9	0.765 4279	7251	9 47.4
20	21 33 2.35	49.95	15 12 51.4	3 54.2	0.764 7028	7388	9 44.3
21	21 33 52.30	49.66	15 8 57.2	3 53.5	0.763 9640	7525	9 41.2
22	21 34 41.96	49.37	15 5 3.7	3 52.8	0.763 2115	7662	9 38.1
23	21 35 31.33		−15 1 10.9		0.762 4453		9 35.0

Tag		0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938		h m s	s	° ′ ″	′ ″			h m
März	23	21 35 31.33	49.08	−15 1 10.9	3 52.0	0.762 4453	7797	9 35.0
	24	21 36 20.41	48.77	14 57 18.9	3 51.2	0.761 6656	7932	9 31.9
	25	21 37 9.18	48.47	14 53 27.7	3 50.3	0.760 8724	8067	9 28.7
	26	21 37 57.65	48.15	14 49 37.4	3 49.4	0.760 0657	8201	9 25.6
	27	21 38 45.80	47.83	14 45 48.0	3 48.4	0.759 2456	8334	9 22.5
	28	21 39 33.63	47.51	14 41 59.6	3 47.4	0.758 4122	8467	9 19.3
	29	21 40 21.14	47.19	−14 38 12.2	3 46.4	0.757 5655	8600	9 16.2
	30	21 41 8.33	46.84	14 34 25.8	3 45.3	0.756 7055	8730	9 13.0
	31	21 41 55.17	46.51	14 30 40.5	3 44.1	0.755 8325	8861	9 9.9
April	1	21 42 41.68	46.16	14 26 56.4	3 42.9	0.754 9464	8990	9 6.7
	2	21 43 27.84	45.80	14 23 13.5	3 41.7	0.754 0474	9119	9 3.6
	3	21 44 13.64	45.44	14 19 31.8	3 40.4	0.753 1355	9246	9 0.4
	4	21 44 59.08	45.09	−14 15 51.4	3 39.1	0.752 2109	9371	8 57.2
	5	21 45 44.17	44.71	14 12 12.3	3 37.7	0.751 2738	9497	8 54.0
	6	21 46 28.88	44.33	14 8 34.6	3 36.3	0.750 3241	9620	8 50.8
	7	21 47 13.21	43.96	14 4 58.3	3 34.8	0.749 3621	9743	8 47.6
	8	21 47 57.17	43.58	14 1 23.5	3 33.3	0.748 3878	9864	8 44.4
	9	21 48 40.75	43.19	13 57 50.2	3 31.8	0.747 4014	9984	8 41.2
	10	21 49 23.94	42.79	−13 54 18.4	3 30.2	0.746 4030	1 0103	8 38.0
	11	21 50 6.73	42.40	13 50 48.2	3 28.6	0.745 3927	1 0221	8 34.8
	12	21 50 49.13	41.99	13 47 19.6	3 27.0	0.744 3706	1 0338	8 31.5
	13	21 51 31.12	41.59	13 43 52.6	3 25.2	0.743 3368	1 0455	8 28.3
	14	21 52 12.71	41.18	13 40 27.4	3 23.5	0.742 2913	1 0570	8 25.0
	15	21 52 53.89	40.77	13 37 3.9	3 21.7	0.741 2343	1 0684	8 21.8
	16	21 53 34.66	40.34	−13 33 42.2	3 19.8	0.740 1659	1 0798	8 18.5
	17	21 54 15.00	39.91	13 30 22.4	3 18.0	0.739 0861	1 0910	8 15.3
	18	21 54 54.91	39.48	13 27 4.4	3 16.0	0.737 9951	1 1021	8 12.0
	19	21 55 34.39	39.05	13 23 48.4	3 14.1	0.736 8930	1 1131	8 8.7
	20	21 56 13.44	38.60	13 20 34.3	3 12.1	0.735 7799	1 1241	8 5.4
	21	21 56 52.04	38.15	13 17 22.2	3 10.0	0.734 6558	1 1349	8 2.1
	22	21 57 30.19	37.70	−13 14 12.2	3 7.8	0.733 5209	1 1456	7 58.8
	23	21 58 7.89	37.24	13 11 4.4	3 5.7	0.732 3753	1 1562	7 55.5
	24	21 58 45.13	36.77	13 7 58.7	3 3.4	0.731 2191	1 1666	7 52.2
	25	21 59 21.90	36.30	13 4 55.3	3 1.2	0.730 0525	1 1769	7 48.9
	26	21 59 58.20	35.82	13 1 54.1	2 58.9	0.728 8756	1 1871	7 45.6
	27	22 0 34.02	35.32	12 58 55.2	2 56.5	0.727 6885	1 1970	7 42.2
	28	22 1 9.34	34.84	−12 55 58.7	2 54.0	0.726 4915	1 2068	7 38.9
	29	22 1 44.18	34.33	12 53 4.7	2 51.6	0.725 2847	1 2165	7 35.5
	30	22 2 18.51	33.83	12 50 13.1	2 49.0	0.724 0682	1 2259	7 32.1
Mai	1	22 2 52.34	33.32	12 47 24.1	2 46.5	0.722 8423	1 2351	7 28.8
	2	22 3 25.66	32.80	12 44 37.6	2 43.9	0.721 6072	1 2441	7 25.4
	3	22 3 58.46		−12 41 53.7		0.720 3631		7 22.0

Tag		0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1938		h m s	s	° ′ ″	′ ″			h m
Mai	3	22 3 58.46	32.27	−12 41 53.7	2 41.2	0.720 3631	1 2529	7 22.0
	4	22 4 30.73	31.75	12 39 12.5	2 38.5	0.719 1102	1 2616	7 18.6
	5	22 5 2.48	31.21	12 36 34.0	2 35.7	0.717 8486	1 2699	7 15.2
	6	22 5 33.69	30.68	12 33 58.3	2 33.0	0.716 5787	1 2780	7 11.8
	7	22 6 4.37	30.13	12 31 25.3	2 30.1	0.715 3007	1 2859	7 8.3
	8	22 6 34.50	29.58	12 28 55.2	2 27.3	0.714 0148	1 2937	7 4.9
	9	22 7 4.08	29.02	−12 26 27.9	2 24.4	0.712 7211	1 3012	7 1.5
	10	22 7 33.10	28.47	12 24 3.5	2 21.4	0.711 4199	1 3085	6 58.0
	11	22 8 1.57	27.90	12 21 42.1	2 18.5	0.710 1114	1 3157	6 54.5
	12	22 8 29.47	27.34	12 19 23.6	2 15.5	0.708 7957	1 3227	6 51.1
	13	22 8 56.81	26.77	12 17 8.1	2 12.4	0.707 4730	1 3294	6 47.6
	14	22 9 23.58	26.19	12 14 55.7	2 9.2	0.706 1436	1 3359	6 44.1
	15	22 9 49.77	25.60	−12 12 46.5	2 6.1	0.704 8077	1 3422	6 40.6
	16	22 10 15.37	25.01	12 10 40.4	2 2.9	0.703 4655	1 3483	6 37.1
	17	22 10 40.38	24.41	12 8 37.5	1 59.7	0.702 1172	1 3541	6 33.6
	18	22 11 4.79	23.82	12 6 37.8	1 56.3	0.700 7631	1 3597	6 30.0
	19	22 11 28.61	23.21	12 4 41.5	1 53.0	0.699 4034	1 3651	6 26.5
	20	22 11 51.82	22.59	12 2 48.5	1 49.7	0.698 0383	1 3703	6 23.0
	21	22 12 14.41	21.98	−12 0 58.8	1 46.2	0.696 6680	1 3752	6 19.4
	22	22 12 36.39	21.35	11 59 12.6	1 42.8	0.695 2928	1 3797	6 15.8
	23	22 12 57.74	20.72	11 57 29.8	1 39.2	0.693 9131	1 3840	6 12.2
	24	22 13 18.46	20.08	11 55 50.6	1 35.7	0.692 5291	1 3881	6 8.6
	25	22 13 38.54	19.43	11 54 14.9	1 32.1	0.691 1410	1 3918	6 5.0
	26	22 13 57.97	18.78	11 52 42.8	1 28.4	0.689 7492	1 3952	6 1.4
	27	22 14 16.75	18.13	−11 51 14.4	1 24.8	0.688 3540	1 3982	5 57.8
	28	22 14 34.88	17.47	11 49 49.6	1 21.0	0.686 9558	1 4009	5 54.2
	29	22 14 52.35	16.79	11 48 28.6	1 17.3	0.685 5549	1 4033	5 50.5
	30	22 15 9.14	16.13	11 47 11.3	1 13.6	0.684 1516	1 4052	5 46.9
	31	22 15 25.27	15.45	11 45 57.7	1 9.7	0.682 7464	1 4068	5 43.2
Juni	1	22 15 40.72	14.77	11 44 48.0	1 5.8	0.681 3396	1 4079	5 39.5
	2	22 15 55.49	14.09	−11 43 42.2	1 2.0	0.679 9317	1 4087	5 35.8
	3	22 16 9.58	13.40	11 42 40.2	0 58.1	0.678 5230	1 4092	5 32.1
	4	22 16 22.98	12.71	11 41 42.1	0 54.2	0.677 1138	1 4092	5 28.4
	5	22 16 35.69	12.01	11 40 47.9	0 50.3	0.675 7046	1 4089	5 24.7
	6	22 16 47.70	11.32	11 39 57.6	0 46.3	0.674 2957	1 4082	5 21.0
	7	22 16 59.02	10.62	11 39 11.3	0 42.4	0.672 8875	1 4071	5 17.2
	8	22 17 9.64	9.92	−11 38 28.9	0 38.4	0.671 4804	1 4058	5 13.5
	9	22 17 19.56	9.21	11 37 50.5	0 34.3	0.670 0746	1 4039	5 9.7
	10	22 17 28.77	8.50	11 37 16.2	0 30.4	0.668 6707	1 4017	5 5.9
	11	22 17 37.27	7.79	11 36 45.8	0 26.3	0.667 2690	1 3992	5 2.1
	12	22 17 45.06	7.08	11 36 19.5	0 22.2	0.665 8698	1 3962	4 58.3
	13	22 17 52.14		−11 35 57.3		0.664 4736		4 54.5

Jupiter 1938

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1938	h m s	s	° ′ ″	′ ″			h m
Juni 13	22 17 52.14	6.36	−11 35 57.3	0 18.1	0.664 4736	1 3929	4 54.5
14	22 17 58.50	5.64	11 35 39.2	0 14.0	0.663 0807	1 3890	4 50.7
15	22 18 4.14	4.92	11 35 25.2	0 9.9	0.661 6917	1 3849	4 46.8
16	22 18 9.06	4.20	11 35 15.3	0 5.7	0.660 3068	1 3802	4 43.0
17	22 18 13.26	3.46	11 35 9.6	0 1.6	0.658 9266	1 3751	4 39.1
18	22 18 16.72	2.73	11 35 8.0	0 2.5	0.657 5515	1 3696	4 35.2
19	22 18 19.45	2.00	−11 35 10.5	0 6.7	0.656 1819	1 3635	4 31.3
20	22 18 21.45	1.26	11 35 17.2	0 10.9	0.654 8184	1 3571	4 27.4
21	22 18 22.71	0.53	11 35 28.1	0 15.1	0.653 4613	1 3501	4 23.5
22	22 18 23.24	0.21	11 35 43.2	0 19.3	0.652 1112	1 3427	4 19.6
23	22 18 23.03	0.96	11 36 2.5	0 23.4	0.650 7685	1 3347	4 15.7
24	22 18 22.07	1.69	11 36 25.9	0 27.7	0.649 4338	1 3262	4 11.7
25	22 18 20.38	2.44	−11 36 53.6	0 31.8	0.648 1076	1 3171	4 7.8
26	22 18 17.94	3.18	11 37 25.4	0 36.0	0.646 7905	1 3076	4 3.8
27	22 18 14.76	3.91	11 38 1.4	0 40.2	0.645 4829	1 2973	3 59.8
28	22 18 10.85	4.66	11 38 41.6	0 44.3	0.644 1856	1 2866	3 55.8
29	22 18 6.19	5.39	11 39 25.9	0 48.4	0.642 8990	1 2753	3 51.8
30	22 18 0.80	6.13	11 40 14.3	0 52.5	0.641 6237	1 2635	3 47.8
Juli 1	22 17 54.67	6.85	−11 41 6.8	0 56.5	0.640 3602	1 2510	3 43.7
2	22 17 47.82	7.58	11 42 3.3	1 0.5	0.639 1092	1 2381	3 39.7
3	22 17 40.24	8.29	11 43 3.8	1 4.6	0.637 8711	1 2245	3 35.6
4	22 17 31.95	9.01	11 44 8.4	1 8.4	0.636 6466	1 2106	3 31.6
5	22 17 22.94	9.72	11 45 16.8	1 12.4	0.635 4360	1 1961	3 27.5
6	22 17 13.22	10.43	11 46 29.2	1 16.2	0.634 2399	1 1812	3 23.4
7	22 17 2.79	11.13	−11 47 45.4	1 20.0	0.633 0587	1 1656	3 19.3
8	22 16 51.66	11.82	11 49 5.4	1 23.9	0.631 8931	1 1497	3 15.1
9	22 16 39.84	12.51	11 50 29.3	1 27.6	0.630 7434	1 1330	3 11.0
10	22 16 27.33	13.20	11 51 56.9	1 31.2	0.629 6104	1 1160	3 6.9
11	22 16 14.13	13.88	11 53 28.1	1 35.0	0.628 4944	1 0983	3 2.7
12	22 16 0.25	14.55	11 55 3.1	1 38.5	0.627 3961	1 0802	2 58.6
13	22 15 45.70	15.21	−11 56 41.6	1 42.1	0.626 3159	1 0616	2 54.4
14	22 15 30.49	15.86	11 58 23.7	1 45.5	0.625 2543	1 0424	2 50.2
15	22 15 14.63	16.52	12 0 9.2	1 49.0	0.624 2119	1 0228	2 46.0
16	22 14 58.11	17.16	12 1 58.2	1 52.4	0.623 1891	1 0026	2 41.8
17	22 14 40.95	17.78	12 3 50.6	1 55.7	0.622 1865	9819	2 37.6
18	22 14 23.17	18.41	12 5 46.3	1 58.9	0.621 2046	9606	2 33.4
19	22 14 4.76	19.02	−12 7 45.2	2 2.0	0.620 2440	9387	2 29.1
20	22 13 45.74	19.63	12 9 47.2	2 5.1	0.619 3053	9163	2 24.9
21	22 13 26.11	20.22	12 11 52.3	2 8.1	0.618 3890	8934	2 20.6
22	22 13 5.89	20.80	12 14 0.4	2 11.1	0.617 4956	8700	2 16.3
23	22 12 45.09	21.38	12 16 11.5	2 13.9	0.616 6256	8461	2 12.1
24	22 12 23.71		−12 18 25.4		0.615 7795		2 7.8

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938		h m s	s	° ′ ″	′ ″			h m
Juli	24	22 12 23.71	21.93	−12 18 25.4	2 16.7	0.615 7795	8216	2 7.8
	25	22 12 1.78	22.47	12 20 42.1	2 19.4	0.614 9579	7965	2 3.5
	26	22 11 39.31	23.01	12 23 1.5	2 21.9	0.614 1614	7709	1 59.2
	27	22 11 16.30	23.51	12 25 23.4	2 24.3	0.613 3905	7450	1 54.9
	28	22 10 52.79	24.01	12 27 47.7	2 26.7	0.612 6455	7184	1 50.5
	29	22 10 28.78	24.49	12 30 14.4	2 28.9	0.611 9271	6915	1 46.2
	30	22 10 4.29	24.95	−12 32 43.3	2 31.0	0.611 2356	6641	1 41.9
	31	22 9 39.34	25.40	12 35 14.3	2 33.1	0.610 5715	6363	1 37.5
Aug.	1	22 9 13.94	25.82	12 37 47.4	2 34.9	0.609 9352	6082	1 33.2
	2	22 8 48.12	26.24	12 40 22.3	2 36.7	0.609 3270	5797	1 28.8
	3	22 8 21.88	26.62	12 42 59.0	2 38.4	0.608 7473	5510	1 24.5
	4	22 7 55.26	26.99	12 45 37.4	2 39.9	0.608 1963	5218	1 20.1
	5	22 7 28.27	27.35	−12 48 17.3	2 41.4	0.607 6745	4924	1 15.7
	6	22 7 0.92	27.68	12 50 58.7	2 42.6	0.607 1821	4627	1 11.3
	7	22 6 33.24	28.00	12 53 41.3	2 43.9	0.606 7194	4327	1 6.9
	8	22 6 5.24	28.29	12 56 25.2	2 45.0	0.606 2867	4024	1 2.5
	9	22 5 36.95	28.57	12 59 10.2	2 46.0	0.605 8843	3720	0 58.1
	10	22 5 8.38	28.83	13 1 56.2	2 46.8	0.605 5123	3412	0 53.7
	11	22 4 39.55	29.07	−13 4 43.0	2 47.5	0.605 1711	3103	0 49.3
	12	22 4 10.48	29.29	13 7 30.5	2 48.2	0.604 8608	2792	0 44.9
	13	22 3 41.19	29.48	13 10 18.7	2 48.7	0.604 5816	2478	0 40.5
	14	22 3 11.71	29.66	13 13 7.4	2 49.1	0.604 3338	2163	0 36.1
	15	22 2 42.05	29.82	13 15 56.5	2 49.4	0.604 1175	1846	0 31.6
	16	22 2 12.23	29.96	13 18 45.9	2 49.5	0.603 9329	1528	0 27.2
	17	22 1 42.27	30.07	−13 21 35.4	2 49.5	0.603 7801	1207	0 22.8
	18	22 1 12.20	30.17	13 24 24.9	2 49.4	0.603 6594	887	0 18.4
	19	22 0 42.03	30.24	13 27 14.3	2 49.1	0.603 5707	564	0 13.9
	20	22 0 11.79	30.29	13 30 3.4	2 48.8	0.603 5143	241	0 9.5
	21	21 59 41.50	30.31	13 32 52.2	2 48.3	0.603 4902	83	0 5.0
	22	21 59 11.19	30.32	13 35 40.5	2 47.7	0.603 4985	407	0 0.6 / 23 56.2
	23	21 58 40.87	30.29	−13 38 28.2	2 46.9	0.603 5392	731	23 51.7
	24	21 58 10.58	30.25	13 41 15.1	2 46.1	0.603 6123	1055	23 47.3
	25	21 57 40.33	30.18	13 44 1.2	2 45.1	0.603 7178	1379	23 42.9
	26	21 57 10.15	30.09	13 46 46.3	2 43.9	0.603 8557	1701	23 38.5
	27	21 56 40.06	29.97	13 49 30.2	2 42.7	0.604 0258	2024	23 34.0
	28	21 56 10.09	29.83	13 52 12.9	2 41.3	0.604 2282	2344	23 29.6
	29	21 55 40.26	29.66	−13 54 54.2	2 39.8	0.604 4626	2663	23 25.2
	30	21 55 10.60	29.48	13 57 34.0	2 38.2	0.604 7289	2979	23 20.8
	31	21 54 41.12	29.27	14 0 12.2	2 36.5	0.605 0268	3292	23 16.3
Sept.	1	21 54 11.85	29.04	14 2 48.7	2 34.7	0.605 3560	3604	23 11.9
	2	21 53 42.81	28.78	14 5 23.4	2 32.7	0.605 7164	3913	23 7.5
	3	21 53 14.03		−14 7 56.1		0.606 1077		23 3.1

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1938	h m s	s	° ′ ″	′ ″			h m
Sept. 3	21 53 14.03	28.51	−14 7 56.1	2 30.7	0.606 1077	4219	23 3.1
4	21 52 45.52	28.22	14 10 26.8	2 28.6	0.606 5296	4522	22 58.7
5	21 52 17.30	27.90	14 12 55.4	2 26.4	0.606 9818	4822	22 54.3
6	21 51 49.40	27.56	14 15 21.8	2 24.0	0.607 4640	5119	22 49.9
7	21 51 21.84	27.21	14 17 45.8	2 21.7	0.607 9759	5412	22 45.6
8	21 50 54.63	26.84	14 20 7.5	2 19.2	0.608 5171	5702	22 41.2
9	21 50 27.79	26.45	−14 22 26.7	2 16.7	0.609 0873	5988	22 36.8
10	21 50 1.34	26.03	14 24 43.4	2 14.0	0.609 6861	6271	22 32.4
11	21 49 35.31	25.61	14 26 57.4	2 11.2	0.610 3132	6550	22 28.1
12	21 49 9.70	25.16	14 29 8.6	2 8.5	0.610 9682	6827	22 23.7
13	21 48 44.54	24.70	14 31 17.1	2 5.5	0.611 6509	7099	22 19.4
14	21 48 19.84	24.22	14 33 22.6	2 2.6	0.612 3608	7367	22 15.1
15	21 47 55.62	23.72	−14 35 25.2	1 59.5	0.613 0975	7632	22 10.7
16	21 47 31.90	23.21	14 37 24.7	1 56.5	0.613 8607	7891	22 6.4
17	21 47 8.69	22.68	14 39 21.2	1 53.3	0.614 6498	8146	22 2.1
18	21 46 46.01	22.13	14 41 14.5	1 50.0	0.615 4644	8398	21 57.8
19	21 46 23.88	21.57	14 43 4.5	1 46.8	0.616 3042	8643	21 53.5
20	21 46 2.31	20.99	14 44 51.3	1 43.3	0.617 1685	8886	21 49.2
21	21 45 41.32	20.39	−14 46 34.6	1 39.9	0.618 0571	9122	21 45.0
22	21 45 20.93	19.78	14 48 14.5	1 36.4	0.618 9693	9353	21 40.7
23	21 45 1.15	19.16	14 49 50.9	1 32.9	0.619 9046	9579	21 36.5
24	21 44 41.99	18.52	14 51 23.8	1 29.2	0.620 8625	9800	21 32.2
25	21 44 23.47	17.86	14 52 53.0	1 25.6	0.621 8425	1 0015	21 28.0
26	21 44 5.61	17.20	14 54 18.6	1 21.9	0.622 8440	1 0224	21 23.8
27	21 43 48.41	16.52	−14 55 40.5	1 18.1	0.623 8664	1 0428	21 19.6
28	21 43 31.89	15.83	14 56 58.6	1 14.4	0.624 9092	1 0625	21 15.4
29	21 43 16.06	15.14	14 58 13.0	1 10.5	0.625 9717	1 0816	21 11.2
30	21 43 0.92	14.43	14 59 23.5	1 6.7	0.627 0533	1 1002	21 7.0
Okt. 1	21 42 46.49	13.72	15 0 30.2	1 2.9	0.628 1535	1 1182	21 2.8
2	21 42 32.77	13.00	15 1 33.1	0 59.0	0.629 2717	1 1355	20 58.7
3	21 42 19.77	12.27	−15 2 32.1	0 55.1	0.630 4072	1 1524	20 54.6
4	21 42 7.50	11.53	15 3 27.2	0 51.1	0.631 5596	1 1686	20 50.4
5	21 41 55.97	10.79	15 4 18.3	0 47.2	0.632 7282	1 1843	20 46.3
6	21 41 45.18	10.03	15 5 5.5	0 43.3	0.633 9125	1 1993	20 42.2
7	21 41 35.15	9.29	15 5 48.8	0 39.3	0.635 1118	1 2139	20 38.1
8	21 41 25.86	8.52	15 6 28.1	0 35.3	0.636 3257	1 2278	20 34.1
9	21 41 17.34	7.76	−15 7 3.4	0 31.4	0.637 5535	1 2413	20 30.0
10	21 41 9.58	7.00	15 7 34.8	0 27.3	0.638 7948	1 2542	20 25.9
11	21 41 2.58	6.24	15 8 2.1	0 23.4	0.640 0490	1 2666	20 21.9
12	21 40 56.34	5.46	15 8 25.5	0 19.3	0.641 3156	1 2785	20 17.9
13	21 40 50.88	4.69	15 8 44.8	0 15.4	0.642 5941	1 2898	20 13.9
14	21 40 46.19		−15 9 0.2		0.643 8839		20 9.9

Tag		0ʰ Welt-Zeit: Scheinbare Rektaszension		0ʰ Welt-Zeit: Scheinbare Deklination		0ʰ Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1938		h m s	s	° ′ ″	′ ″			h m
Okt.	14	21 40 46.19	3.91	−15 9 0.2	0 11.3	0.643 8839	1 3007	20 9.9
	15	21 40 42.28	3.12	15 9 11.5	0 7.3	0.645 1846	1 3110	20 5.9
	16	21 40 39.16	2.34	15 9 18.8	0 3.3	0.646 4956	1 3208	20 1.9
	17	21 40 36.82	1.56	15 9 22.1	0 0.7	0.647 8164	1 3301	19 58.0
	18	21 40 35.26	0.76	15 9 21.4	0 4.8	0.649 1465	1 3388	19 54.0
	19	21 40 34.50	0.02	15 9 16.6	0 8.9	0.650 4853	1 3471	19 50.1
	20	21 40 34.52	0.82	−15 9 7.7	0 12.9	0.651 8324	1 3548	19 46.2
	21	21 40 35.34	1.61	15 8 54.8	0 17.0	0.653 1872	1 3619	19 42.3
	22	21 40 36.95	2.40	15 8 37.8	0 21.0	0.654 5491	1 3686	19 38.4
	23	21 40 39.35	3.19	15 8 16.8	0 25.0	0.655 9177	1 3746	19 34.5
	24	21 40 42.54	3.98	15 7 51.8	0 29.1	0.657 2923	1 3802	19 30.6
	25	21 40 46.52	4.78	15 7 22.7	0 33.0	0.658 6725	1 3852	19 26.7
	26	21 40 51.30	5.56	−15 6 49.7	0 37.1	0.660 0577	1 3897	19 22.9
	27	21 40 56.86	6.35	15 6 12.6	0 41.0	0.661 4474	1 3937	19 19.1
	28	21 41 3.21	7.13	15 5 31.6	0 45.0	0.662 8411	1 3972	19 15.3
	29	21 41 10.34	7.91	15 4 46.6	0 48.9	0.664 2383	1 4001	19 11.5
	30	21 41 18.25	8.69	15 3 57.7	0 52.9	0.665 6384	1 4027	19 7.7
	31	21 41 26.94	9.46	15 3 4.8	0 56.8	0.667 0411	1 4047	19 3.9
Nov.	1	21 41 36.40	10.22	−15 2 8.0	1 0.6	0.668 4458	1 4063	19 0.1
	2	21 41 46.62	10.98	15 1 7.4	1 4.5	0.669 8521	1 4075	18 56.4
	3	21 41 57.60	11.74	15 0 2.9	1 8.4	0.671 2596	1 4082	18 52.6
	4	21 42 9.34	12.50	14 58 54.5	1 12.2	0.672 6678	1 4085	18 48.9
	5	21 42 21.84	13.23	14 57 42.3	1 15.9	0.674 0763	1 4085	18 45.2
	6	21 42 35.07	13.98	14 56 26.4	1 19.7	0.675 4848	1 4081	18 41.5
	7	21 42 49.05	14.71	−14 55 6.7	1 23.5	0.676 8929	1 4072	18 37.8
	8	21 43 3.76	15.43	14 53 43.2	1 27.2	0.678 3001	1 4060	18 34.1
	9	21 43 19.19	16.16	14 52 16.0	1 31.0	0.679 7061	1 4044	18 30.4
	10	21 43 35.35	16.88	14 50 45.0	1 34.7	0.681 1105	1 4026	18 26.8
	11	21 43 52.23	17.58	14 49 10.3	1 38.3	0.682 5131	1 4003	18 23.2
	12	21 44 9.81	18.30	14 47 32.0	1 42.0	0.683 9134	1 3978	18 19.5
	13	21 44 28.11	19.00	−14 45 50.0	1 45.6	0.685 3112	1 3949	18 15.9
	14	21 44 47.11	19.69	14 44 4.4	1 49.2	0.686 7061	1 3917	18 12.3
	15	21 45 6.80	20.39	14 42 15.2	1 52.9	0.688 0978	1 3881	18 8.7
	16	21 45 27.19	21.07	14 40 22.3	1 56.5	0.689 4859	1 3841	18 5.1
	17	21 45 48.26	21.75	14 38 25.8	2 0.0	0.690 8700	1 3799	18 1.5
	18	21 46 10.01	22.42	14 36 25.8	2 3.6	0.692 2499	1 3752	17 58.0
	19	21 46 32.43	23.09	−14 34 22.2	2 7.1	0.693 6251	1 3703	17 54.4
	20	21 46 55.52	23.76	14 32 15.1	2 10.7	0.694 9954	1 3650	17 50.9
	21	21 47 19.28	24.41	14 30 4.4	2 14.1	0.696 3604	1 3594	17 47.4
	22	21 47 43.69	25.06	14 27 50.3	2 17.5	0.697 7198	1 3535	17 43.8
	23	21 48 8.75	25.70	14 25 32.8	2 21.0	0.699 0733	1 3472	17 40.3
	24	21 48 34.45		−14 23 11.8		0.700 4205		17 36.8

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938	h m s	s	° ′ ″	′ ″			h m
Nov. 24	21 48 34.45	26.33	−14 23 11.8	2 24.4	0.700 4205	1 3406	17 36.8
25	21 49 0.78	26.95	14 20 47.4	2 27.8	0.701 7611	1 3337	17 33.3
26	21 49 27.73	27.57	14 18 19.6	2 31.1	0.703 0948	1 3266	17 29.9
27	21 49 55.30	28.17	14 15 48.5	2 34.4	0.704 4214	1 3191	17 26.4
28	21 50 23.47	28.78	14 13 14.1	2 37.7	0.705 7405	1 3115	17 22.9
29	21 50 52.25	29.37	14 10 36.4	2 40.9	0.707 0520	1 3036	17 19.5
30	21 51 21.62	29.96	−14 7 55.5	2 44.2	0.708 3556	1 2954	17 16.1
Dez. 1	21 51 51.58	30.53	14 5 11.3	2 47.3	0.709 6510	1 2869	17 12.6
2	21 52 22.11	31.09	14 2 24.0	2 50.5	0.710 9379	1 2783	17 9.2
3	21 52 53.20	31.65	13 59 33.5	2 53.7	0.712 2162	1 2695	17 5.8
4	21 53 24.85	32.20	13 56 39.8	2 56.7	0.713 4857	1 2605	17 2.4
5	21 53 57.05	32.75	13 53 43.1	2 59.9	0.714 7462	1 2513	16 59.0
6	21 54 29.80	33.28	−13 50 43.2	3 2.8	0.715 9975	1 2419	16 55.6
7	21 55 3.08	33.80	13 47 40.4	3 5.9	0.717 2394	1 2323	16 52.3
8	21 55 36.88	34.33	13 44 34.5	3 8.9	0.718 4717	1 2226	16 48.9
9	21 56 11.21	34.83	13 41 25.6	3 11.8	0.719 6943	1 2127	16 45.5
10	21 56 46.04	35.34	13 38 13.8	3 14.8	0.720 9070	1 2027	16 42.2
11	21 57 21.38	35.83	13 34 59.0	3 17.7	0.722 1097	1 1924	16 38.9
12	21 57 57.21	36.33	−13 31 41.3	3 20.6	0.723 3021	1 1821	16 35.5
13	21 58 33.54	36.81	13 28 20.7	3 23.5	0.724 4842	1 1715	16 32.2
14	21 59 10.35	37.29	13 24 57.2	3 26.4	0.725 6557	1 1609	16 28.9
15	21 59 47.64	37.76	13 21 30.8	3 29.2	0.726 8166	1 1500	16 25.6
16	22 0 25.40	38.22	13 18 1.6	3 32.1	0.727 9666	1 1388	16 22.3
17	22 1 3.62	38.68	13 14 29.5	3 34.8	0.729 1054	1 1275	16 19.0
18	22 1 42.30	39.13	−13 10 54.7	3 37.5	0.730 2329	1 1161	16 15.7
19	22 2 21.43	39.57	13 7 17.2	3 40.3	0.731 3490	1 1045	16 12.4
20	22 3 1.00	40.01	13 3 36.9	3 43.0	0.732 4535	1 0926	16 9.1
21	22 3 41.01	40.43	12 59 53.9	3 45.6	0.733 5461	1 0808	16 5.9
22	22 4 21.44	40.85	12 56 8.3	3 48.2	0.734 6269	1 0686	16 2.6
23	22 5 2.29	41.26	12 52 20.1	3 50.9	0.735 6955	1 0564	15 59.3
24	22 5 43.55	41.67	−12 48 29.2	3 53.4	0.736 7519	1 0441	15 56.1
25	22 6 25.22	42.06	12 44 35.8	3 56.0	0.737 7960	1 0315	15 52.9
26	22 7 7.28	42.44	12 40 39.8	3 58.5	0.738 8275	1 0189	15 49.6
27	22 7 49.72	42.83	12 36 41.3	4 0.9	0.739 8464	1 0061	15 46.4
28	22 8 32.55	43.19	12 32 40.4	4 3.4	0.740 8525	9932	15 43.2
29	22 9 15.74	43.56	12 28 37.0	4 5.8	0.741 8457	9803	15 40.0
30	22 9 59.30	43.92	−12 24 31.2	4 8.1	0.742 8260	9673	15 36.8
31	22 10 43.22	44.26	12 20 23.1	4 10.4	0.743 7933	9541	15 33.6
32	22 11 27.48		−12 16 12.7		0.744 7474		15 30.4

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938	h m s	s	° ′ ″	′ ″			h m
Jan. 0	0 0 25.47	11.05	−2 29 58.4	1 25.9	0.982 5863	7380	17 21.7
1	0 0 36.52	11.40	2 28 32.5	1 28.2	0.983 3243	7344	17 17.9
2	0 0 47.92	11.75	2 27 4.3	1 30.4	0.984 0587	7305	17 14.2
3	0 0 59.67	12.11	2 25 33.9	1 32.6	0.984 7892	7266	17 10.5
4	0 1 11.78	12.46	2 24 1.3	1 34.7	0.985 5158	7224	17 6.8
5	0 1 24.24	12.80	2 22 26.6	1 36.9	0.986 2382	7180	17 3.0
6	0 1 37.04	13.15	−2 20 49.7	1 39.0	0.986 9562	7134	16 59.3
7	0 1 50.19	13.49	2 19 10.7	1 41.1	0.987 6696	7087	16 55.6
8	0 2 3.68	13.82	2 17 29.6	1 43.1	0.988 3783	7037	16 51.9
9	0 2 17.50	14.15	2 15 46.5	1 45.2	0.989 0820	6986	16 48.2
10	0 2 31.65	14.48	2 14 1.3	1 47.2	0.989 7806	6934	16 44.5
11	0 2 46.13	14.80	2 12 14.1	1 49.1	0.990 4740	6879	16 40.8
12	0 3 0.93	15.13	−2 10 25.0	1 51.1	0.991 1619	6823	16 37.1
13	0 3 16.06	15.44	2 8 33.9	1 53.1	0.991 8442	6766	16 33.5
14	0 3 31.50	15.75	2 6 40.8	1 54.9	0.992 5208	6708	16 29.8
15	0 3 47.25	16.06	2 4 45.9	1 56.8	0.993 1916	6649	16 26.1
16	0 4 3.31	16.36	2 2 49.1	1 58.7	0.993 8565	6588	16 22.5
17	0 4 19.67	16.67	2 0 50.4	2 0.4	0.994 5153	6526	16 18.8
18	0 4 36.34	16.97	−1 58 50.0	2 2.3	0.995 1679	6462	16 15.2
19	0 4 53.31	17.26	1 56 47.7	2 4.0	0.995 8141	6398	16 11.5
20	0 5 10.57	17.55	1 54 43.7	2 5.8	0.996 4539	6332	16 7.9
21	0 5 28.12	17.83	1 52 37.9	2 7.6	0.997 0871	6264	16 4.2
22	0 5 45.95	18.12	1 50 30.3	2 9.2	0.997 7135	6195	16 0.6
23	0 6 4.07	18.41	1 48 21.1	2 10.9	0.998 3330	6126	15 57.0
24	0 6 22.48	18.68	−1 46 10.2	2 12.5	0.998 9456	6054	15 53.3
25	0 6 41.16	18.95	1 43 57.7	2 14.2	0.999 5510	5981	15 49.7
26	0 7 0.11	19.23	1 41 43.5	2 15.7	1.000 1491	5908	15 46.1
27	0 7 19.34	19.49	1 39 27.8	2 17.3	1.000 7399	5832	15 42.5
28	0 7 38.83	19.75	1 37 10.5	2 18.9	1.001 3231	5756	15 38.9
29	0 7 58.58	20.01	1 34 51.6	2 20.3	1.001 8987	5679	15 35.3
30	0 8 18.59	20.26	−1 32 31.3	2 21.8	1.002 4666	5599	15 31.7
31	0 8 38.85	20.51	1 30 9.5	2 23.2	1.003 0265	5519	15 28.1
Febr. 1	0 8 59.36	20.75	1 27 46.3	2 24.7	1.003 5784	5438	15 24.5
2	0 9 20.11	21.00	1 25 21.6	2 26.0	1.004 1222	5355	15 20.9
3	0 9 41.11	21.23	1 22 55.6	2 27.4	1.004 6577	5272	15 17.3
4	0 10 2.34	21.46	1 20 28.2	2 28.7	1.005 1849	5188	15 13.8
5	0 10 23.80	21.69	−1 17 59.5	2 30.0	1.005 7037	5103	15 10.2
6	0 10 45.49	21.92	1 15 29.5	2 31.2	1.006 2140	5017	15 6.6
7	0 11 7.41	22.12	1 12 58.3	2 32.4	1.006 7157	4930	15 3.1
8	0 11 29.53	22.34	1 10 25.9	2 33.7	1.007 2087	4842	14 59.5
9	0 11 51.87	22.55	1 7 52.2	2 34.8	1.007 6929	4753	14 55.9
10	0 12 14.42		−1 5 17.4		1.008 1682		14 52.4

Tag		0ʰ Welt-Zeit						Obere Kulmination in Greenwich
		Scheinbare Rektaszension		Scheinbare Deklination		log Δ		
1938		h m s	s	° ′ ″	′ ″			h m
Febr.	10	0 12 14.42	22.75	−1 5 17.4	2 35.9	1.008 1682	4664	14 52.4
	11	0 12 37.17	22.95	1 2 41.5	2 37.0	1.008 6346	4574	14 48.8
	12	0 13 0.12	23.15	1 0 4.5	2 38.1	1.009 0920	4485	14 45.3
	13	0 13 23.27	23.33	0 57 26.4	2 39.1	1.009 5405	4394	14 41.7
	14	0 13 46.60	23.52	0 54 47.3	2 40.2	1.009 9799	4303	14 38.2
	15	0 14 10.12	23.71	0 52 7.1	2 41.1	1.010 4102	4211	14 34.6
	16	0 14 33.83	23.89	−0 49 26.0	2 42.1	1.010 8313	4119	14 31.1
	17	0 14 57.72	24.06	0 46 43.9	2 43.0	1.011 2432	4026	14 27.6
	18	0 15 21.78	24.23	0 44 0.9	2 43.9	1.011 6458	3933	14 24.0
	19	0 15 46.01	24.40	0 41 17.0	2 44.8	1.012 0391	3839	14 20.5
	20	0 16 10.41	24.56	0 38 32.2	2 45.6	1.012 4230	3743	14 17.0
	21	0 16 34.97	24.73	0 35 46.6	2 46.5	1.012 7973	3647	14 13.5
	22	0 16 59.70	24.88	−0 33 0.1	2 47.3	1.013 1620	3552	14 9.9
	23	0 17 24.58	25.03	0 30 12.8	2 48.0	1.013 5172	3454	14 6.4
	24	0 17 49.61	25.18	0 27 24.8	2 48.8	1.013 8626	3357	14 2.9
	25	0 18 14.79	25.32	0 24 36.0	2 49.5	1.014 1983	3260	13 59.4
	26	0 18 40.11	25.45	0 21 46.5	2 50.1	1.014 5243	3161	13 55.9
	27	0 19 5.56	25.60	0 18 56.4	2 50.9	1.014 8404	3061	13 52.4
	28	0 19 31.16	25.72	−0 16 5.5	2 51.4	1.015 1465	2961	13 48.9
März	1	0 19 56.88	25.85	0 13 14.1	2 52.0	1.015 4426	2861	13 45.4
	2	0 20 22.73	25.97	0 10 22.1	2 52.5	1.015 7287	2760	13 41.9
	3	0 20 48.70	26.09	0 7 29.6	2 53.1	1.016 0047	2659	13 38.4
	4	0 21 14.79	26.20	0 4 36.5	2 53.5	1.016 2706	2558	13 34.9
	5	0 21 40.99	26.31	−0 1 43.0	2 54.1	1.016 5264	2456	13 31.4
	6	0 22 7.30	26.41	+0 1 11.1	2 54.4	1.016 7720	2354	13 27.9
	7	0 22 33.71	26.51	0 4 5.5	2 54.8	1.017 0074	2251	13 24.4
	8	0 23 0.22	26.60	0 7 0.3	2 55.2	1.017 2325	2150	13 20.9
	9	0 23 26.82	26.69	0 9 55.5	2 55.6	1.017 4475	2048	13 17.4
	10	0 23 53.51	26.78	0 12 51.1	2 55.8	1.017 6523	1945	13 13.9
	11	0 24 20.29	26.85	0 15 46.9	2 56.1	1.017 8468	1843	13 10.4
	12	0 24 47.14	26.93	+0 18 43.0	2 56.4	1.018 0311	1740	13 6.9
	13	0 25 14.07	27.01	0 21 39.4	2 56.6	1.018 2051	1638	13 3.5
	14	0 25 41.08	27.07	0 24 36.0	2 56.8	1.018 3689	1535	13 0.0
	15	0 26 8.15	27.13	0 27 32.8	2 57.0	1.018 5224	1432	12 56.5
	16	0 26 35.28	27.20	0 30 29.8	2 57.1	1.018 6656	1329	12 53.0
	17	0 27 2.48	27.25	0 33 26.9	2 57.2	1.018 7985	1226	12 49.5
	18	0 27 29.73	27.31	+0 36 24.1	2 57.3	1.018 9211	1123	12 46.0
	19	0 27 57.04	27.36	0 39 21.4	2 57.4	1.019 0334	1020	12 42.6
	20	0 28 24.40	27.40	0 42 18.8	2 57.4	1.019 1354	917	12 39.1
	21	0 28 51.80	27.45	0 45 16.2	2 57.5	1.019 2271	813	12 35.6
	22	0 29 19.25	27.48	0 48 13.7	2 57.5	1.019 3084	710	12 32.1
	23	0 29 46.73		+0 51 11.2		1.019 3794		12 28.7

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938	h m s	s	° ′ ″	′ ″			h m
März 23	0 29 46.73	27.52	+0 51 11.2	2 57.4	1.019 3794	606	12 28.7
24	0 30 14.25	27.55	0 54 8.6	2 57.4	1.019 4400	502	12 25.2
25	0 30 41.80	27.57	0 57 6.0	2 57.2	1.019 4902	397	12 21.7
26	0 31 9.37	27.60	1 0 3.2	2 57.2	1.019 5299	293	12 18.2
27	0 31 36.97	27.62	1 3 0.4	2 57.0	1.019 5592	190	12 14.8
28	0 32 4.59	27.63	1 5 57.4	2 56.8	1.019 5782	85	12 11.3
29	0 32 32.22	27.64	+1 8 54.2	2 56.6	1.019 5867	19	12 7.8
30	0 32 59.86	27.64	1 11 50.8	2 56.4	1.019 5848	123	12 4.4
31	0 33 27.50	27.65	1 14 47.2	2 56.1	1.019 5725	227	12 0.9
April 1	0 33 55.15	27.64	1 17 43.3	2 55.9	1.019 5498	332	11 57.4
2	0 34 22.79	27.63	1 20 39.2	2 55.5	1.019 5166	437	11 53.9
3	0 34 50.42	27.62	1 23 34.7	2 55.1	1.019 4729	540	11 50.5
4	0 35 18.04	27.61	+1 26 29.8	2 54.8	1.019 4189	644	11 47.0
5	0 35 45.65	27.58	1 29 24.6	2 54.3	1.019 3545	748	11 43.5
6	0 36 13.23	27.55	1 32 18.9	2 54.0	1.019 2797	850	11 40.0
7	0 36 40.78	27.53	1 35 12.9	2 53.4	1.019 1947	952	11 36.6
8	0 37 8.31	27.50	1 38 6.3	2 53.0	1.019 0995	1055	11 33.1
9	0 37 35.81	27.45	1 40 59.3	2 52.5	1.018 9940	1157	11 29.6
10	0 38 3.26	27.42	+1 43 51.8	2 51.9	1.018 8783	1258	11 26.1
11	0 38 30.68	27.37	1 46 43.7	2 51.3	1.018 7525	1359	11 22.6
12	0 38 58.05	27.32	1 49 35.0	2 50.8	1.018 6166	1460	11 19.2
13	0 39 25.37	27.27	1 52 25.8	2 50.2	1.018 4706	1561	11 15.7
14	0 39 52.64	27.21	1 55 16.0	2 49.6	1.018 3145	1662	11 12.2
15	0 40 19.85	27.16	1 58 5.6	2 48.9	1.018 1483	1763	11 8.7
16	0 40 47.01	27.09	+2 0 54.5	2 48.2	1.017 9720	1862	11 5.2
17	0 41 14.10	27.03	2 3 42.7	2 47.6	1.017 7858	1961	11 1.8
18	0 41 41.13	26.95	2 6 30.3	2 46.9	1.017 5897	2061	10 58.3
19	0 42 8.08	26.88	2 9 17.2	2 46.1	1.017 3836	2160	10 54.8
20	0 42 34.96	26.81	2 12 3.3	2 45.3	1.017 1676	2259	10 51.3
21	0 43 1.77	26.72	2 14 48.6	2 44.6	1.016 9417	2357	10 47.8
22	0 43 28.49	26.64	+2 17 33.2	2 43.7	1.016 7060	2456	10 44.3
23	0 43 55.13	26.56	2 20 16.9	2 42.9	1.016 4604	2554	10 40.8
24	0 44 21.69	26.46	2 22 59.8	2 42.0	1.016 2050	2651	10 37.4
25	0 44 48.15	26.36	2 25 41.8	2 41.1	1.015 9399	2750	10 33.9
26	0 45 14.51	26.26	2 28 22.9	2 40.2	1.015 6649	2847	10 30.4
27	0 45 40.77	26.16	2 31 3.1	2 39.3	1.015 3802	2943	10 26.9
28	0 46 6.93	26.04	+2 33 42.4	2 38.2	1.015 0859	3040	10 23.4
29	0 46 32.97	25.93	2 36 20.6	2 37.3	1.014 7819	3136	10 19.9
30	0 46 58.90	25.81	2 38 57.9	2 36.2	1.014 4683	3232	10 16.4
Mai 1	0 47 24.71	25.69	2 41 34.1	2 35.2	1.014 1451	3326	10 12.9
2	0 47 50.40	25.57	2 44 9.3	2 34.2	1.013 8125	3421	10 9.3
3	0 48 15.97		+2 46 43.5		1.013 4704		10 5.8

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938	h m s	s	° ′ ″	′ ″			h m
Mai 3	0 48 15.97	25.43	+2 46 43.5	2 33.0	1.013 4704	3514	10 5.8
4	0 48 41.40	25.29	2 49 16.5	2 31.9	1.013 1190	3607	10 2.3
5	0 49 6.69	25.16	2 51 48.4	2 30.7	1.012 7583	3699	9 58.8
6	0 49 31.85	25.02	2 54 19.1	2 29.6	1.012 3884	3791	9 55.3
7	0 49 56.87	24.86	2 56 48.7	2 28.4	1.012 0093	3881	9 51.8
8	0 50 21.73	24.72	2 59 17.1	2 27.1	1.011 6212	3971	9 48.3
9	0 50 46.45	24.56	+3 1 44.2	2 26.0	1.011 2241	4060	9 44.8
10	0 51 11.01	24.41	3 4 10.2	2 24.7	1.010 8181	4149	9 41.2
11	0 51 35.42	24.24	3 6 34.9	2 23.5	1.010 4032	4236	9 37.7
12	0 51 59.66	24.09	3 8 58.4	2 22.1	1.009 9796	4324	9 34.2
13	0 52 23.75	23.92	3 11 20.5	2 20.8	1.009 5472	4410	9 30.6
14	0 52 47.67	23.74	3 13 41.3	2 19.5	1.009 1062	4496	9 27.1
15	0 53 11.41	23.57	+3 16 0.8	2 18.1	1.008 6566	4581	9 23.6
16	0 53 34.98	23.40	3 18 18.9	2 16.7	1.008 1985	4666	9 20.0
17	0 53 58.38	23.21	3 20 35.6	2 15.4	1.007 7319	4751	9 16.5
18	0 54 21.59	23.03	3 22 51.0	2 14.0	1.007 2568	4833	9 12.9
19	0 54 44.62	22.84	3 25 5.0	2 12.5	1.006 7735	4916	9 9.4
20	0 55 7.46	22.64	3 27 17.5	2 11.0	1.006 2819	4998	9 5.8
21	0 55 30.10	22.45	+3 29 28.5	2 9.6	1.005 7821	5080	9 2.2
22	0 55 52.55	22.25	3 31 38.1	2 8.1	1.005 2741	5161	8 58.7
23	0 56 14.80	22.05	3 33 46.2	2 6.6	1.004 7580	5241	8 55.1
24	0 56 36.85	21.84	3 35 52.8	2 5.0	1.004 2339	5321	8 51.5
25	0 56 58.69	21.63	3 37 57.8	2 3.4	1.003 7018	5399	8 48.0
26	0 57 20.32	21.41	3 40 1.2	2 1.8	1.003 1619	5477	8 44.4
27	0 57 41.73	21.19	+3 42 3.0	2 0.2	1.002 6142	5552	8 40.8
28	0 58 2.92	20.96	3 44 3.2	1 58.5	1.002 0590	5628	8 37.2
29	0 58 23.88	20.73	3 46 1.7	1 56.9	1.001 4962	5701	8 33.7
30	0 58 44.61	20.50	3 47 58.6	1 55.2	1.000 9261	5775	8 30.1
31	0 59 5.11	20.26	3 49 53.8	1 53.5	1.000 3486	5848	8 26.5
Juni 1	0 59 25.37	20.03	3 51 47.3	1 51.8	0.999 7638	5920	8 22.9
2	0 59 45.40	19.78	+3 53 39.1	1 50.0	0.999 1718	5990	8 19.3
3	1 0 5.18	19.53	3 55 29.1	1 48.3	0.998 5728	6059	8 15.7
4	1 0 24.71	19.28	3 57 17.4	1 46.5	0.997 9669	6126	8 12.1
5	1 0 43.99	19.02	3 59 3.9	1 44.8	0.997 3543	6192	8 8.5
6	1 1 3.01	18.77	4 0 48.7	1 42.9	0.996 7351	6258	8 4.8
7	1 1 21.78	18.51	4 2 31.6	1 41.0	0.996 1093	6321	8 1.2
8	1 1 40.29	18.24	+4 4 12.6	1 39.3	0.995 4772	6384	7 57.6
9	1 1 58.53	17.97	4 5 51.9	1 37.4	0.994 8388	6445	7 54.0
10	1 2 16.50	17.71	4 7 29.3	1 35.5	0.994 1943	6507	7 50.3
11	1 2 34.21	17.43	4 9 4.8	1 33.6	0.993 5436	6565	7 46.7
12	1 2 51.64	17.15	4 10 38.4	1 31.7	0.992 8871	6624	7 43.0
13	1 3 8.79		+4 12 10.1		0.992 2247		7 39.4

Tag		0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938		h m s	s	° ′ ″	′ ″			h m
Juni	13	1 3 8.79	16.88	+4 12 10.1	1 29.8	0.992 2247	6682	7 39.4
	14	1 3 25.67	16.60	4 13 39.9	1 27.9	0.991 5565	6737	7 35.8
	15	1 3 42.27	16.30	4 15 7.8	1 25.9	0.990 8828	6792	7 32.1
	16	1 3 58.57	16.02	4 16 33.7	1 23.9	0.990 2036	6845	7 28.4
	17	1 4 14.59	15.73	4 17 57.6	1 21.9	0.989 5191	6898	7 24.7
	18	1 4 30.32	15.43	4 19 19.5	1 19.9	0.988 8293	6949	7 21.1
	19	1 4 45.75	15.13	+4 20 39.4	1 17.9	0.988 1344	6999	7 17.4
	20	1 5 0.88	14.83	4 21 57.3	1 15.9	0.987 4345	7048	7 13.7
	21	1 5 15.71	14.51	4 23 13.2	1 13.8	0.986 7297	7094	7 10.0
	22	1 5 30.22	14.21	4 24 27.0	1 11.7	0.986 0203	7141	7 6.3
	23	1 5 44.43	13.90	4 25 38.7	1 9.7	0.985 3062	7185	7 2.6
	24	1 5 58.33	13.58	4 26 48.4	1 7.5	0.984 5877	7229	6 58.9
	25	1 6 11.91	13.26	+4 27 55.9	1 5.4	0.983 8648	7270	6 55.2
	26	1 6 25.17	12.93	4 29 1.3	1 3.2	0.983 1378	7311	6 51.5
	27	1 6 38.10	12.61	4 30 4.5	1 1.1	0.982 4067	7348	6 47.8
	28	1 6 50.71	12.27	4 31 5.6	0 58.9	0.981 6719	7383	6 44.1
	29	1 7 2.98	11.94	4 32 4.5	0 56.7	0.980 9336	7417	6 40.3
	30	1 7 14.92	11.60	4 33 1.2	0 54.6	0.980 1919	7449	6 36.6
Juli	1	1 7 26.52	11.27	+4 33 55.8	0 52.4	0.979 4470	7480	6 32.9
	2	1 7 37.79	10.92	4 34 48.2	0 50.1	0.978 6990	7509	6 29.1
	3	1 7 48.71	10.58	4 35 38.3	0 47.9	0.977 9481	7536	6 25.4
	4	1 7 59.29	10.23	4 36 26.2	0 45.7	0.977 1945	7561	6 21.6
	5	1 8 9.52	9.89	4 37 11.9	0 43.5	0.976 4384	7585	6 17.9
	6	1 8 19.41	9.54	4 37 55.4	0 41.2	0.975 6799	7605	6 14.1
	7	1 8 28.95	9.18	+4 38 36.6	0 39.0	0.974 9194	7625	6 10.3
	8	1 8 38.13	8.83	4 39 15.6	0 36.7	0.974 1569	7643	6 6.5
	9	1 8 46.96	8.48	4 39 52.3	0 34.5	0.973 3926	7659	6 2.7
	10	1 8 55.44	8.12	4 40 26.8	0 32.2	0.972 6267	7674	5 58.9
	11	1 9 3.56	7.75	4 40 59.0	0 29.9	0.971 8593	7687	5 55.1
	12	1 9 11.31	7.40	4 41 28.9	0 27.6	0.971 0906	7697	5 51.3
	13	1 9 18.71	7.04	+4 41 56.5	0 25.3	0.970 3209	7707	5 47.5
	14	1 9 25.75	6.67	4 42 21.8	0 23.0	0.969 5502	7713	5 43.7
	15	1 9 32.42	6.30	4 42 44.8	0 20.8	0.968 7789	7718	5 39.9
	16	1 9 38.72	5.93	4 43 5.6	0 18.4	0.968 0071	7722	5 36.1
	17	1 9 44.65	5.57	4 43 24.0	0 16.1	0.967 2349	7723	5 32.2
	18	1 9 50.22	5.19	4 43 40.1	0 13.8	0.966 4626	7722	5 28.4
	19	1 9 55.41	4.81	+4 43 53.9	0 11.4	0.965 6904	7720	5 24.5
	20	1 10 0.22	4.44	4 44 5.3	0 9.1	0.964 9184	7715	5 20.7
	21	1 10 4.66	4.06	4 44 14.4	0 6.8	0.964 1469	7709	5 16.8
	22	1 10 8.72	3.68	4 44 21.2	0 4.4	0.963 3760	7699	5 13.0
	23	1 10 12.40	3.31	4 44 25.6	0 2.1	0.962 6061	7688	5 9.1
	24	1 10 15.71		+4 44 27.7		0.961 8373		5 5.2

Tag		0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938		h m s	s	° ′ ″	′ ″			h m
Juli	24	1 10 15.71	2.92	+4 44 27.7	0 0.3	0.961 8373	7674	5 5.2
	25	1 10 18.63	2.53	4 44 27.4	0 2.6	0.961 0699	7658	5 1.3
	26	1 10 21.16	2.16	4 44 24.8	0 5.0	0.960 3041	7639	4 57.4
	27	1 10 23.32	1.76	4 44 19.8	0 7.3	0.959 5402	7617	4 53.5
	28	1 10 25.08	1.38	4 44 12.5	0 9.6	0.958 7785	7594	4 49.6
	29	1 10 26.46	1.00	4 44 2.9	0 11.9	0.958 0191	7567	4 45.7
	30	1 10 27.46	0.61	+4 43 51.0	0 14.3	0.957 2624	7538	4 41.8
	31	1 10 28.07	0.22	4 43 36.7	0 16.6	0.956 5086	7507	4 37.9
Aug.	1	1 10 28.29	$\overline{0.16}$	4 43 20.1	0 18.9	0.955 7579	7474	4 34.0
	2	1 10 28.13	0.54	4 43 1.2	0 21.2	0.955 0105	7437	4 30.0
	3	1 10 27.59	0.93	4 42 40.0	0 23.5	0.954 2668	7400	4 26.1
	4	1 10 26.66	1.31	4 42 16.5	0 25.8	0.953 5268	7359	4 22.1
	5	1 10 25.35	1.69	+4 41 50.7	0 28.0	0.952 7909	7316	4 18.2
	6	1 10 23.66	2.07	4 41 22.7	0 30.3	0.952 0593	7270	4 14.2
	7	1 10 21.59	2.44	4 40 52.4	0 32.5	0.951 3323	7223	4 10.2
	8	1 10 19.15	2.82	4 40 19.9	0 34.8	0.950 6100	7173	4 6.3
	9	1 10 16.33	3.19	4 39 45.1	0 36.9	0.949 8927	7120	4 2.3
	10	1 10 13.14	3.57	4 39 8.2	0 39.2	0.949 1807	7066	3 58.3
	11	1 10 9.57	3.95	+4 38 29.0	0 41.3	0.948 4741	7010	3 54.3
	12	1 10 5.62	4.31	4 37 47.7	0 43.6	0.947 7731	6950	3 50.3
	13	1 10 1.31	4.69	4 37 4.1	0 45.7	0.947 0781	6888	3 46.3
	14	1 9 56.62	5.06	4 36 18.4	0 47.8	0.946 3893	6825	3 42.3
	15	1 9 51.56	5.43	4 35 30.6	0 50.0	0.945 7068	6757	3 38.3
	16	1 9 46.13	5.79	4 34 40.6	0 52.1	0.945 0311	6688	3 34.3
	17	1 9 40.34	6.15	+4 33 48.5	0 54.2	0.944 3623	6617	3 30.2
	18	1 9 34.19	6.51	4 32 54.3	0 56.3	0.943 7006	6543	3 26.2
	19	1 9 27.68	6.87	4 31 58.0	0 58.3	0.943 0463	6467	3 22.2
	20	1 9 20.81	7.23	4 30 59.7	1 0.4	0.942 3996	6388	3 18.1
	21	1 9 13.58	7.58	4 29 59.3	1 2.4	0.941 7608	6306	3 14.1
	22	1 9 6.00	7.93	4 28 56.9	1 4.3	0.941 1302	6222	3 10.0
	23	1 8 58.07	8.28	+4 27 52.6	1 6.3	0.940 5080	6134	3 5.9
	24	1 8 49.79	8.63	4 26 46.3	1 8.3	0.939 8946	6044	3 1.9
	25	1 8 41.16	8.96	4 25 38.0	1 10.1	0.939 2902	5952	2 57.8
	26	1 8 32.20	9.30	4 24 27.9	1 12.0	0.938 6950	5856	2 53.7
	27	1 8 22.90	9.63	4 23 15.9	1 13.8	0.938 1094	5759	2 49.6
	28	1 8 13.27	9.95	4 22 2.1	1 15.7	0.937 5335	5658	2 45.5
	29	1 8 3.32	10.27	+4 20 46.4	1 17.3	0.936 9677	5557	2 41.4
	30	1 7 53.05	10.59	4 19 29.1	1 19.1	0.936 4120	5451	2 37.3
	31	1 7 42.46	10.90	4 18 10.0	1 20.8	0.935 8669	5345	2 33.2
Sept.	1	1 7 31.56	11.20	4 16 49.2	1 22.4	0.935 3324	5236	2 29.1
	2	1 7 20.36	11.49	4 15 26.8	1 24.0	0.934 8088	5125	2 25.0
	3	1 7 8.87		+4 14 2.8		0.934 2963		2 20.9

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938		h m s	s	° ′ ″	′ ″			h m
Sept.	3	1 7 8.87	11.79	+4 14 2.8	1 25.6	0.934 2963	5011	2 20.9
	4	1 6 57.08	12.07	4 12 37.2	1 27.1	0.933 7952	4896	2 16.7
	5	1 6 45.01	12.36	4 11 10.1	1 28.6	0.933 3056	4778	2 12.6
	6	1 6 32.65	12.63	4 9 41.5	1 30.1	0.932 8278	4659	2 8.4
	7	1 6 20.02	12.89	4 8 11.4	1 31.5	0.932 3619	4537	2 4.3
	8	1 6 7.13	13.16	4 6 39.9	1 32.8	0.931 9082	4413	2 0.2
	9	1 5 53.97	13.42	+4 5 7.1	1 34.2	0.931 4669	4289	1 56.0
	10	1 5 40.55	13.67	4 3 32.9	1 35.5	0.931 0380	4162	1 51.9
	11	1 5 26.88	13.91	4 1 57.4	1 36.7	0.930 6218	4033	1 47.7
	12	1 5 12.97	14.14	4 0 20.7	1 37.9	0.930 2185	3902	1 43.6
	13	1 4 58.83	14.38	3 58 42.8	1 39.0	0.929 8283	3769	1 39.4
	14	1 4 44.45	14.60	3 57 3.8	1 40.2	0.929 4514	3635	1 35.2
	15	1 4 29.85	14.82	+3 55 23.6	1 41.1	0.929 0879	3498	1 31.0
	16	1 4 15.03	15.03	3 53 42.5	1 42.2	0.928 7381	3361	1 26.9
	17	1 4 0.00	15.24	3 52 0.3	1 43.2	0.928 4020	3221	1 22.7
	18	1 3 44.76	15.43	3 50 17.1	1 44.0	0.928 0799	3079	1 18.5
	19	1 3 29.33	15.61	3 48 33.1	1 44.9	0.927 7720	2936	1 14.3
	20	1 3 13.72	15.80	3 46 48.2	1 45.7	0.927 4784	2790	1 10.1
	21	1 2 57.92	15.96	+3 45 2.5	1 46.4	0.927 1994	2643	1 5.9
	22	1 2 41.96	16.13	3 43 16.1	1 47.1	0.926 9351	2495	1 1.7
	23	1 2 25.83	16.28	3 41 29.0	1 47.7	0.926 6856	2345	0 57.5
	24	1 2 9.55	16.42	3 39 41.3	1 48.3	0.926 4511	2194	0 53.3
	25	1 1 53.13	16.56	3 37 53.0	1 48.8	0.926 2317	2043	0 49.1
	26	1 1 36.57	16.68	3 36 4.2	1 49.2	0.926 0274	1889	0 44.9
	27	1 1 19.89	16.79	+3 34 15.0	1 49.7	0.925 8385	1736	0 40.7
	28	1 1 3.10	16.90	3 32 25.3	1 49.9	0.925 6649	1581	0 36.5
	29	1 0 46.20	17.00	3 30 35.4	1 50.2	0.925 5068	1426	0 32.3
	30	1 0 29.20	17.09	3 28 45.2	1 50.4	0.925 3642	1269	0 28.1
Okt.	1	1 0 12.11	17.16	3 26 54.8	1 50.6	0.925 2373	1113	0 23.9
	2	0 59 54.95	17.23	3 25 4.2	1 50.6	0.925 1260	955	0 19.6
	3	0 59 37.72	17.29	+3 23 13.6	1 50.6	0.925 0305	798	0 15.4
	4	0 59 20.43	17.34	3 21 23.0	1 50.6	0.924 9507	639	0 11.2
	5	0 59 3.09	17.38	3 19 32.4	1 50.5	0.924 8868	482	0 7.0
	6	0 58 45.71	17.41	3 17 41.9	1 50.4	0.924 8386	323	0 2.8 / 23 58.5
	7	0 58 28.30	17.43	3 15 51.5	1 50.1	0.924 8063	164	23 54.3
	8	0 58 10.87	17.44	3 14 1.4	1 49.9	0.924 7899	6	23 50.1
	9	0 57 53.43	17.45	+3 12 11.5	1 49.6	0.924 7893	153	23 45.9
	10	0 57 35.98	17.44	3 10 21.9	1 49.2	0.924 8046	312	23 41.7
	11	0 57 18.54	17.43	3 8 32.7	1 48.7	0.924 8358	470	23 37.4
	12	0 57 1.11	17.40	3 6 44.0	1 48.2	0.924 8828	629	23 33.2
	13	0 56 43.71	17.37	3 4 55.8	1 47.7	0.924 9457	787	23 29.0
	14	0 56 26.34		+3 3 8.1		0.925 0244		23 24.8

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938	h m s	s	° ′ ″	′ ″			h m
Okt. 14	0 56 26.34	17.33	+3 3 8.1	1 47.0	0.925 0244	945	23 24.8
15	0 56 9.01	17.29	3 1 21.1	1 46.4	0.925 1189	1104	23 20.6
16	0 55 51.72	17.22	2 59 34.7	1 45.6	0.925 2293	1261	23 16.3
17	0 55 34.50	17.15	2 57 49.1	1 44.9	0.925 3554	1420	23 12.1
18	0 55 17.35	17.07	2 56 4.2	1 44.0	0.925 4974	1576	23 7.9
19	0 55 0.28	16.98	2 54 20.2	1 43.1	0.925 6550	1733	23 3.7
20	0 54 43.30	16.87	+2 52 37.1	1 42.1	0.925 8283	1889	22 59.5
21	0 54 26.43	16.77	2 50 55.0	1 41.1	0.926 0172	2044	22 55.3
22	0 54 9.66	16.65	2 49 13.9	1 39.9	0.926 2216	2198	22 51.1
23	0 53 53.01	16.52	2 47 34.0	1 38.8	0.926 4414	2352	22 46.9
24	0 53 36.49	16.38	2 45 55.2	1 37.6	0.926 6766	2504	22 42.7
25	0 53 20.11	16.24	2 44 17.6	1 36.3	0.926 9270	2654	22 38.5
26	0 53 3.87	16.08	+2 42 41.3	1 35.0	0.927 1924	2805	22 34.3
27	0 52 47.79	15.91	2 41 6.3	1 33.7	0.927 4729	2953	22 30.1
28	0 52 31.88	15.74	2 39 32.6	1 32.2	0.927 7682	3099	22 25.9
29	0 52 16.14	15.56	2 38 0.4	1 30.7	0.928 0781	3244	22 21.7
30	0 52 0.58	15.36	2 36 29.7	1 29.2	0.928 4025	3387	22 17.5
31	0 51 45.22	15.15	2 35 0.5	1 27.6	0.928 7412	3529	22 13.3
Nov. 1	0 51 30.07	14.94	+2 33 32.9	1 25.9	0.929 0941	3668	22 9.1
2	0 51 15.13	14.73	2 32 7.0	1 24.3	0.929 4609	3807	22 5.0
3	0 51 0.40	14.51	2 30 42.7	1 22.6	0.929 8416	3942	22 0.8
4	0 50 45.89	14.27	2 29 20.1	1 20.8	0.930 2358	4077	21 56.6
5	0 50 31.62	14.04	2 27 59.3	1 19.0	0.930 6435	4210	21 52.4
6	0 50 17.58	13.79	2 26 40.3	1 17.1	0.931 0645	4340	21 48.3
7	0 50 3.79	13.54	+2 25 23.2	1 15.3	0.931 4985	4468	21 44.1
8	0 49 50.25	13.27	2 24 7.9	1 13.4	0.931 9453	4594	21 40.0
9	0 49 36.98	13.01	2 22 54.5	1 11.4	0.932 4047	4719	21 35.8
10	0 49 23.97	12.74	2 21 43.1	1 9.4	0.932 8766	4842	21 31.7
11	0 49 11.23	12.46	2 20 33.7	1 7.3	0.933 3608	4962	21 27.6
12	0 48 58.77	12.18	2 19 26.4	1 5.3	0.933 8570	5081	21 23.4
13	0 48 46.59	11.89	+2 18 21.1	1 3.2	0.934 3651	5198	21 19.3
14	0 48 34.70	11.58	2 17 17.9	1 1.0	0.934 8849	5313	21 15.2
15	0 48 23.12	11.28	2 16 16.9	0 58.9	0.935 4162	5424	21 11.0
16	0 48 11.84	10.97	2 15 18.0	0 56.6	0.935 9586	5535	21 6.9
17	0 48 0.87	10.64	2 14 21.4	0 54.4	0.936 5121	5642	21 2.8
18	0 47 50.23	10.33	2 13 27.0	0 52.1	0.937 0763	5747	20 58.7
19	0 47 39.90	10.00	+2 12 34.9	0 49.8	0.937 6510	5851	20 54.6
20	0 47 29.90	9.66	2 11 45.1	0 47.5	0.938 2361	5950	20 50.5
21	0 47 20.24	9.32	2 10 57.6	0 45.1	0.938 8311	6048	20 46.4
22	0 47 10.92	8.97	2 10 12.5	0 42.7	0.939 4359	6144	20 42.4
23	0 47 1.95	8.63	2 9 29.8	0 40.2	0.940 0503	6235	20 38.3
24	0 46 53.32		+2 8 49.6		0.940 6738		20 34.2

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938	h m s	s	° ′ ″	″			h m
Nov. 24	0 46 53.32	8.27	+2 8 49.6	37.8	0.940 6738	6326	20 34.2
25	0 46 45.05	7.91	2 8 11.8	35.3	0.941 3064	6412	20 30.1
26	0 46 37.14	7.54	2 7 36.5	32.9	0.941 9476	6496	20 26.1
27	0 46 29.60	7.18	2 7 3.6	30.4	0.942 5972	6576	20 22.1
28	0 46 22.42	6.81	2 6 33.2	27.8	0.943 2548	6654	20 18.0
29	0 46 15.61	6.43	2 6 5.4	25.3	0.943 9202	6730	20 14.0
30	0 46 9.18	6.06	+2 5 40.1	22.8	0.944 5932	6803	20 9.9
Dez. 1	0 46 3.12	5.67	2 5 17.3	20.2	0.945 2735	6873	20 5.9
2	0 45 57.45	5.29	2 4 57.1	17.6	0.945 9608	6941	20 1.9
3	0 45 52.16	4.90	2 4 39.5	15.1	0.946 6549	7005	19 57.9
4	0 45 47.26	4.52	2 4 24.4	12.5	0.947 3554	7066	19 53.9
5	0 45 42.74	4.14	2 4 11.9	9.9	0.948 0620	7126	19 49.9
6	0 45 38.60	3.74	+2 4 2.0	7.3	0.948 7746	7181	19 45.9
7	0 45 34.86	3.35	2 3 54.7	4.7	0.949 4927	7235	19 41.9
8	0 45 31.51	2.96	2 3 50.0	2.1	0.950 2162	7286	19 37.9
9	0 45 28.55	2.56	2 3 47.9	0.5	0.950 9448	7335	19 33.9
10	0 45 25.99	2.17	2 3 48.4	3.0	0.951 6783	7382	19 29.9
11	0 45 23.82	1.77	2 3 51.4	5.7	0.952 4165	7425	19 26.0
12	0 45 22.05	1.37	+2 3 57.1	8.3	0.953 1590	7466	19 22.0
13	0 45 20.68	0.97	2 4 5.4	10.9	0.953 9056	7505	19 18.1
14	0 45 19.71	0.57	2 4 16.3	13.5	0.954 6561	7542	19 14.1
15	0 45 19.14	0.16	2 4 29.8	16.2	0.955 4103	7575	19 10.2
16	0 45 18.98	0.25	2 4 46.0	18.8	0.956 1678	7606	19 6.3
17	0 45 19.23	0.65	2 5 4.8	21.4	0.956 9284	7634	19 2.3
18	0 45 19.88	1.05	+2 5 26.2	24.0	0.957 6918	7660	18 58.4
19	0 45 20.93	1.45	2 5 50.2	26.6	0.958 4578	7682	18 54.5
20	0 45 22.38	1.87	2 6 16.8	29.2	0.959 2260	7702	18 50.6
21	0 45 24.25	2.27	2 6 46.0	31.8	0.959 9962	7720	18 46.7
22	0 45 26.52	2.67	2 7 17.8	34.4	0.960 7682	7735	18 42.8
23	0 45 29.19	3.08	2 7 52.2	37.0	0.961 5417	7747	18 39.0
24	0 45 32.27	3.49	+2 8 29.2	39.6	0.962 3164	7756	18 35.1
25	0 45 35.76	3.90	2 9 8.8	42.1	0.963 0920	7763	18 31.2
26	0 45 39.66	4.30	2 9 50.9	44.6	0.963 8683	7767	18 27.4
27	0 45 43.96	4.69	2 10 35.5	47.1	0.964 6450	7768	18 23.5
28	0 45 48.65	5.10	2 11 22.6	49.6	0.965 4218	7767	18 19.6
29	0 45 53.75	5.50	2 12 12.2	52.2	0.966 1985	7765	18 15.8
30	0 45 59.25	5.89	+2 13 4.4	54.7	0.966 9750	7759	18 12.0
31	0 46 5.14	6.28	2 13 59.1	57.1	0.967 7509	7752	18 8.1
32	0 46 11.42		+2 14 56.2		0.968 5261		18 4.3

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1938	h m s	s	° ′ ″	′ ″			h m
Jan. −2	2 30 27.93	14.70	+14 23 21.6	1 4.1	1.282 5432	1 3311	19 59.0
+2	30 13.23	11.62	22 17.5	0 49.0	283 8743	1 3804	19 43.0
6	30 1.61	8.43	21 28.5	0 33.7	285 2547	1 4217	19 27.1
10	29 53.18	5.20	20 54.8	0 18.0	286 6764	1 4553	19 11.3
14	29 47.98	1.95	20 36.8	0 2.1	288 1317	1 4807	18 55.5
18	2 29 46.03	1.35	+14 20 34.7	0 13.8	1.289 6124	1 4990	18 39.7
22	29 47.38	4.63	20 48.5	0 29.8	291 1114	1 5095	18 24.0
26	29 52.01	7.93	21 18.3	0 45.7	292 6209	1 5131	18 8.4
30	·29 59.94	11.22	22 4.0	1 1.5	294 1340	1 5086	17 52.8
Febr. 3	30 11.16	14.46	23 5.5	1 17.1	295 6426	1 4962	17 37.3
7	2 30 25.62	17.63	+14 24 22.6	1 32.1	1.297 1388	1 4767	17 21.8
11	30 43.25	20.73	25 54.7	1 46.7	298 6155	1 4505	17 6.4
15	31 3.98	23.72	27 41.4	2 1.0	300 0660	1 4190	16 51.0
19	31 27.70	26.64	29 42.4	2 14.6	301 4850	1 3805	16 35.7
23	31 54.34	29.45	31 57.0	2 27.6	302 8655	1 3369	16 20.4
27	2 32 23.79	32.19	+14 34 24.6	2 40.2	1.304 2024	1 2874	16 5.2
März 3	32 55.98	34.76	37 4.8	2 51.9	305 4898	1 2321	15 50.0
7	33 30.74	37.21	39 56.7	3 2.9	306 7219	1 1719	15 34.8
11	34 7.95	39.51	42 59.6	3 13.1	307 8938	1 1074	15 19.7
15	34 47.46	41.64	46 12.7	3 22.4	309 0012	1 0394	15 4.7
19	2 35 29.10	43.65	+14 49 35.1	3 31.0	1.310 0406	9683	14 49.6
23	36 12.75	45.52	53 6.1	3 38.9	311 0089	8929	14 34.6
27	36 58.27	47.22	+14 56 45.0	3 45.8	311 9018	8149	14 19.7
31	37 45.49	48.76	+15 0 30.8	3 52.0	312 7167	7333	14 4.7
April 4	38 34.25	50.13	4 22.8	3 57.2	313 4500	6493	13 49.8
8	2 39 24.38	51.31	+15 8 20.0	4 1.6	1.314 0993	5641	13 34.9
12	40 15.69	52.33	12 21.6	4 5.2	314 6634	4768	13 20.0
16	41 8.02	53.19	16 26.8	4 7.8	315 1402	3891	13 5.2
20	42 1.21	53.89	20 34.6	4 9.7	315 5293	3001	12 50.3
24	42 55.10	54.41	24 44.3	4 10.8	315 8294	2097	12 35.5
28	2 43 49.51	54.77	+15 28 55.1	4 11.2	1.316 0391	1187	12 20.7
Mai 2	44 44.28	54.93	33 6.3	4 10.4	316 1578	273	12 5.9
6	45 39.21	54.91	37 16.7	4 9.1	316 1851	638	11 51.0
10	46 34.12	54.74	41 25.8	4 7.0	316 1213	1535	11 36.2
14	47 28.86	54.37	45 32.8	4 4.2	315 9678	2425	11 21.4
18	2 48 23.23	53.89	+15 49 37.0	4 0.6	1.315 7253	3310	11 6.6
22	49 17.12	53.22	53 37.6	3 56.3	315 3943	4185	10 51.7
26	50 10.34	52.39	+15 57 33.9	3 51.4	314 9758	5045	10 36.9
30	51 2.73	51.36	+16 1 25.3	3 45.8	314 4713	5892	10 22.0
Juni 3	51 54.09	50.18	5 11.1	3 39.3	313 8821	6716	10 7.2
7	2 52 44.27	48.84	+16 8 50.4	3 32.4	1.313 2105	7509	9 52.3
11	53 33.11	47.35	12 22.8	3 25.0	312 4596	8272	9 37.4
15	54 20.46	45.73	15 47.8	3 16.8	311 6324	9016	9 22.4
19	55 6.19	43.95	19 4.6	3 8.2	310 7308	9729	9 7.4
23	55 50.14	42.03	22 12.8	2 59.2	309 7579	1 0414	8 52.4
27	56 32.17	39.94	25 12.0	2 49.3	308 7165	1 1058	8 37.4
Juli 1	2 57 12.11		+16 28 1.3		1.307 6107		8 22.3

Tag		0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938		h m s	s	° ′ ″	′ ″			h m
Juli	1	2 57 12.11	37.72	+16 28 1.3	2 39.2	1.307 6107	1 1660	8 22.3
	5	57 49.83	35.37	30 40.5	2 28.6	306 4447	1 2221	8 7.2
	9	58 25.20	32.91	33 9.1	2 17.4	305 2226	1 2729	7 52.1
	13	58 58.11	30.34	35 26.5	2 6.2	303 9497	1 3198	7 36.9
	17	59 28.45	27.67	37 32.7	1 54.3	302 6299	1 3620	7 21.7
	21	2 59 56.12	24.88	+16 39 27.0	1 42.2	1.301 2679	1 3994	7 6.4
	25	3 0 21.00	21.99	41 9.2	1 29.8	299 8685	1 4308	6 51.1
	29	0 42.99	18.99	42 39.0	1 17.0	298 4377	1 4561	6 35.7
Aug.	2	1 1.98	15.95	43 56.0	1 4.1	296 9816	1 4754	6 20.3
	6	1 17.93	12.86	45 0.1	0 51.1	295 5062	1 4881	6 4.8
	10	3 1 30.79	9.72	+16 45 51.2	0 37.8	1.294 0181	1 4950	5 49.3
	14	1 40.51	6.56	46 29.0	0 24.5	292 5231	1 4956	5 33.7
	18	1 47.07	3.34	46 53.5	0 11.2	291 0275	1 4898	5 18.1
	22	1 50.41	0.12	47 4.7	0 2.3	289 5377	1 4768	5 2.5
	26	1 50.53	3.10	47 2.4	0 15.6	288 0609	1 4561	4 46.7
	30	3 1 47.43	6.29	+16 46 46.8	0 28.8	1.286 6048	1 4279	4 30.9
Sept.	3	1 41.14	9.41	46 18.0	0 41.8	285 1769	1 3932	4 15.1
	7	1 31.73	12.48	45 36.2	0 54.6	283 7837	1 3510	3 59.2
	11	1 19.25	15.47	44 41.6	1 7.0	282 4327	1 3027	3 43.3
	15	1 3.78	18.38	43 34.6	1 19.1	281 1300	1 2471	3 27.3
	19	3 0 45.40	21.19	+16 42 15.5	1 30.9	1.279 8829	1 1846	3 11.3
	23	0 24.21	23.87	40 44.6	1 42.0	278 6983	1 1149	2 55.2
	27	3 0 0.34	26.37	39 2.6	1 52.6	277 5834	1 0382	2 39.1
Okt.	1	2 59 33.97	28.70	37 10.0	2 2.5	276 5452	9555	2 22.9
	5	59 5.27	30.85	35 7.5	2 11.5	275 5897	8678	2 6.7
	9	2 58 34.42	32.78	+16 32 56.0	2 19.9	1.274 7219	7748	1 50.5
	13	58 1.64	34.52	30 36.1	2 27.4	273 9471	6767	1 34.2
	17	57 27.12	36.05	28 8.7	2 33.9	273 2704	5746	1 17.9
	21	56 51.07	37.32	25 34.8	2 39.5	272 6958	4679	1 1.6
	25	56 13.75	38.33	22 55.3	2 43.9	272 2279	3575	0 45.2
	29	2 55 35.42	39.05	+16 20 11.4	2 47.2	1.271 8704	2449	0 28.8
Nov.	2	54 56.37	39.49	17 24.2	2 49.5	271 6255	1311	0 12.5
	6	54 16.88	39.69	14 34.7	2 50.3	271 4944	165	23 52.0
	10	53 37.19	39.61	11 44.4	2 50.2	271 4779	984	23 35.6
	14	52 57.58	39.26	8 54.2	2 48.8	271 5763	2139	23 19.2
	18	2 52 18.32	38.62	+16 6 5.4	2 46.2	1.271 7902	3280	23 2.8
	22	51 39.70	37.71	3 19.2	2 42.3	272 1182	4404	22 46.5
	26	51 1.99	36.50	+16 0 36.9	2 37.1	272 5586	5506	22 30.1
	30	50 25.49	35.05	+15 57 59.8	2 30.9	273 1092	6564	22 13.8
Dez.	4	49 50.44	33.35	55 28.9	2 23.3	273 7656	7580	21 57.5
	8	2 49 17.09	31.45	+15 53 5.6	2 15.0	1.274 5236	8550	21 41.2
	12	48 45.64	29.32	50 50.6	2 5.5	275 3786	9476	21 25.0
	16	48 16.32	26.98	48 45.1	1 55.1	276 3262	1 0347	21 8.8
	20	47 49.34	24.45	46 50.0	1 43.6	277 3609	1 1156	20 52.6
	24	47 24.89	21.72	45 6.4	1 31.5	278 4765	1 1894	20 36.5
	28	47 3.17	18.85	43 34.9	1 18.6	279 6659	1 2558	20 20.4
	32	2 46 44.32		+15 42 16.3		1.280 9217		20 4.4

Neptun 1938

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: log Δ		Obere Kulmination in Greenwich
1938	h m s	s	° ′ ″	′ ″			h m
Jan. −2	11 29 13.51	3.37	+4 31 49.3	0 33.5	1.476 0886	9611	5 0.3
+2	29 10.14	5.37	32 22.8	0 46.2	475 1275	9389	4 44.5
6	29 4.77	7.31	33 9.0	0 58.4	474 1886	9116	4 28.7
10	28 57.46	9.20	34 7.4	1 10.3	473 2770	8793	4 12.8
14	28 48.26	11.01	35 17.7	1 21.5	472 3977	8427	3 56.9
18	11 28 37.25	12.76	+4 36 39.2	1 32.3	1.471 5550	8018	3 41.0
22	28 24.49	14.41	38 11.5	1 42.5	470 7532	7567	3 25.1
26	28 10.08	15.99	39 54.0	1 52.0	469 9965	7070	3 9.1
30	27 54.09	17.47	41 46.0	2 1.0	469 2895	6532	2 53.1
Febr. 3	27 36.62	18.80	43 47.0	2 8.9	468 6363	5957	2 37.1
7	11 27 17.82	20.02	+4 45 55.9	2 16.1	1.468 0406	5347	2 21.1
11	26 57.80	21.10	48 12.0	2 22.3	467 5059	4716	2 5.0
15	26 36.70	22.04	50 34.3	2 27.6	467 0343	4059	1 48.9
19	26 14.66	22.86	53 1.9	2 32.1	466 6284	3380	1 32.9
23	25 51.80	23.51	55 34.0	2 35.6	466 2904	2679	1 16.7
27	11 25 28.29	24.02	+4 58 9.6	2 37.9	1.466 0225	1965	1 0.6
März 3	25 4.27	24.38	+5 0 47.5	2 39.5	465 8260	1240	0 44.5
7	24 39.89	24.55	3 27.0	2 39.7	465 7020	508	0 28.4
11	24 15.34	24.57	6 6.7	2 39.1	465 6512	218	0 12.2
15	23 50.77	24.44	8 45.8	2 37.5	465 6730	939	23 52.1
19	11 23 26.33	24.17	+5 11 23.3	2 34.8	1.465 7669	1652	23 35.9
23	23 2.16	23.74	13 58.1	2 31.4	465 9321	2358	23 19.8
27	22 38.42	23.16	16 29.5	2 26.9	466 1679	3048	23 3.7
31	22 15.26	22.44	18 56.4	2 21.4	466 4727	3723	22 47.6
April 4	21 52.82	21.55	21 17.8	2 15.1	466 8450	4372	22 31.5
8	11 21 31.27	20.56	+5 23 32.9	2 8.1	1.467 2822	4990	22 15.4
12	21 10.71	19.43	25 41.0	2 0.3	467 7812	5578	21 59.3
16	20 51.28	18.19	27 41.3	1 51.8	468 3390	6132	21 43.3
20	20 33.09	16.86	29 33.1	1 42.7	468 9522	6659	21 27.3
24	20 16.23	15.43	31 15.8	1 33.1	469 6181	7146	21 11.3
28	11 20 0.80	13.88	+5 32 48.9	1 22.7	1.470 3327	7599	20 55.3
Mai 2	19 46.92	12.24	34 11.6	1 11.9	471 0926	8006	20 39.3
6	19 34.68	10.55	35 23.5	1 0.8	471 8932	8369	20 23.4
10	19 24.13	8.80	36 24.3	0 49.2	472 7301	8689	20 7.5
14	19 15.33	7.01	37 13.5	0 37.6	473 5990	8964	19 51.7
18	11 19 8.32	5.16	+5 37 51.1	0 25.8	1.474 4954	9198	19 35.8
22	19 3.16	3.30	38 16.9	0 13.5	475 4152	9391	19 20.0
26	18 59.86	1.39	38 30.4	0 1.4	476 3543	9538	19 4.2
30	18 58.47	0.55	38 31.8	0 11.0	477 3081	9636	18 48.5
Juni 3	18 59.02	2.47	38 20.8	0 23.4	478 2717	9686	18 32.8
7	11 19 1.49	4.39	+5 37 57.4	0 35.4	1.479 2403	9695	18 17.1
11	19 5.88	6.30	37 22.0	0 47.5	480 2098	9659	18 1.5
15	19 12.18	8.16	36 34.5	0 59.4	481 1757	9586	17 45.8
19	19 20.34	10.03	35 35.1	1 11.1	482 1343	9472	17 30.2
23	19 30.37	11.86	34 24.0	1 22.5	483 0815	9316	17 14.7
27	19 42.23	13.66	33 1.5	1 33.9	484 0131	9120	16 59.2
Juli 1	11 19 55.89		+5 31 27.6		1.484 9251		16 43.7

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		log Δ		Obere Kulmination in Greenwich
1938		h m s	s	° ′ ″	′ ″			h m
Juli	1	11 19 55.89	15.40	+5 31 27.6	1 44.7	1.484 9251	8882	16 43.7
	5	20 11.29	17.08	29 42.9	1 55.0	485 8133	8607	16 28.2
	9	20 28.37	18.69	27 47.9	2 5.1	486 6740	8300	16 12.8
	13	20 47.06	20.24	25 42.8	2 14.7	487 5040	7962	15 57.3
	17	21 7.30	21.72	23 28.1	2 23.8	488 3002	7594	15 42.0
	21	11 21 29.02	23.15	+5 21 4.3	2 32.4	1.489 0596	7193	15 26.6
	25	21 52.17	24.48	18 31.9	2 40.6	489 7789	6765	15 11.3
	29	22 16.65	25.73	15 51.3	2 48.2	490 4554	6304	14 55.9
Aug.	2	22 42.38	26.89	13 3.1	2 55.1	491 0858	5819	14 40.6
	6	23 9.27	27.94	10 8.0	3 1.5	491 6677	5315	14 25.4
	10	11 23 37.21	28.89	+5 7 6.5	3 7.1	1.492 1992	4793	14 10.1
	14	24 6.10	29.78	3 59.4	3 12.3	492 6785	4252	13 54.8
	18	24 35.88	30.54	+5 0 47.1	3 16.8	493 1037	3690	13 39.6
	22	25 6.42	31.21	+4 57 30.3	3 20.6	493 4727	3115	13 24.4
	26	25 37.63	31.79	54 9.7	3 23.7	493 7842	2521	13 9.2
	30	11 26 9.42	32.23	+4 50 46.0	3 26.1	1.494 0363	1919	12 54.0
Sept.	3	26 41.65	32.54	47 19.9	3 27.6	494 2282	1309	12 38.8
	7	27 14.19	32.78	43 52.3	3 28.6	494 3591	695	12 23.6
	11	27 46.97	32.88	40 23.7	3 28.8	494 4286	78	12 8.4
	15	28 19.85	32.90	36 54.9	3 28.3	494 4364	$\overline{541}$	11 53.2
	19	11 28 52.75	32.80	+4 33 26.6	3 27.2	1.494 3823	1167	11 38.1
	23	29 25.55	32.55	29 59.4	3 25.1	494 2656	1790	11 22.9
	27	29 58.10	32.21	26 34.3	3 22.3	494 0866	2410	11 7.7
Okt.	1	30 30.31	31.74	23 12.0	3 18.8	493 8456	3015	10 52.5
	5	31 2.05	31.15	19 53.2	3 14.6	493 5441	3611	10 37.3
	9	11 31 33.20	30.47	+4 16 38.6	3 9.6	1.493 1830	4196	10 22.1
	13	32 3.67	29.66	13 29.0	3 4.1	492 7634	4766	10 6.9
	17	32 33.33	28.77	10 24.9	2 57.6	492 2868	5324	9 51.6
	21	33 2.10	27.74	7 27.3	2 50.5	491 7544	5865	9 36.4
	25	33 29.84	26.61	4 36.8	2 42.8	491 1679	6379	9 21.1
	29	11 33 56.45	25.37	+4 1 54.0	2 34.4	1.490 5300	6866	9 5.8
Nov.	2	34 21.82	24.02	+3 59 19.6	2 25.2	489 8434	7328	8 50.5
	6	34 45.84	22.61	56 54.4	2 15.8	489 1106	7758	8 35.2
	10	35 8.45	21.10	54 38.6	2 5.6	488 3348	8158	8 19.8
	14	35 29.55	19.51	52 33.0	1 55.0	487 5190	8527	8 4.4
	18	11 35 49.06	17.82	+3 50 38.0	1 43.7	1.486 6663	8861	7 49.0
	22	36 6.88	16.07	48 54.3	1 32.2	485 7802	9154	7 33.6
	26	36 22.95	14.23	47 22.1	1 20.0	484 8648	9403	7 18.1
	30	36 37.18	12.35	46 2.1	1 7.7	483 9245	9610	7 2.7
Dez.	4	36 49.53	10.43	44 54.4	0 55.1	482 9635	9769	6 47.1
	8	11 36 59.96	8.48	+3 43 59.3	0 42.3	1.481 9866	9888	6 31.6
	12	37 8.44	6.48	43 17.0	0 29.2	480 9978	9963	6 16.0
	16	37 14.92	4.46	42 47.8	0 16.2	480 0015	9985	6 0.4
	20	37 19.38	2.41	42 31.6	0 3.0	479 0030	9961	5 44.7
	24	37 21.79	0.36	42 28.6	$\overline{0\ 10.2}$	478 0069	9882	5 29.0
	28	37 22.15	$\overline{1.66}$	42 38.8	0 23.1	477 0187	9750	5 13.3
	32	11 37 20.49		+3 43 1.9		1.476 0437		4 57.5

Pluto 1938

Tag	0h Welt-Zeit									Obere Kulmination in Greenwich
	Rektaszension 1950.0		Fixstern-aberration	Deklination 1950.0		Fixstern-aberration	log Δ		Lichtzeit	
1938	h m s	s	s	° ′ ″	″	″			d	h m
Jan. −2	8 9 53.14	20.69	+1.33	+23 8 4.4	86.3	−4.4	1.585 1653	3059	0.2220	1 41
+2	9 32.45	21.31	1.37	9 30.7	86.7	4.5	584 8594	2522	2218	1 25
6	9 11.14	21.82	1.40	10 57.4	86.7	4.5	584 6072	1977	2217	1 8
10	8 49.32	22.19	1.43	12 24.1	86.2	4.4	584 4095	1425	2216	0 52
14	8 27.13	22.42	1.44	13 50.3	85.3	4.4	584 2670	868	2215	0 36
18	8 8 4.71	22.52	+1.45	+23 15 15.6	84.1	−4.3	1.584 1802	307	0.2215	0 20
22	7 42.19	22.47	1.45	16 39.7	82.3	4.2	584 1495	254	2215	0 4
26	7 19.72	22.29	1.45	18 2.0	80.1	4.1	584 1749	813	2215	23 44
30	6 57.43	21.96	1.43	19 22.1	77.5	4.0	584 2562	1365	2215	23 28
Febr. 3	6 35.47	21.50	1.41	20 39.6	74.5	3.9	584 3927	1907	2216	23 12
7	8 6 13.97	20.89	+1.38	+23 21 54.1	71.2	−3.7	1.584 5834	2435	0.2217	22 56
11	5 53.08	20.16	1.34	23 5.3	67.5	3.5	584 8269	2944	2218	22 40
15	5 32.92	19.31	1.30	24 12.8	63.7	3.3	585 1213	3433	2220	22 24
19	5 13.61	18.35	1.25	25 16.5	59.6	3.1	585 4646	3902	2221	22 8
23	4 55.26	17.28	1.20	26 16.1	55.2	2.8	585 8548	4349	2223	21 52
27	8 4 37.98	16.09	+1.14	+23 27 11.3	50.5	−2.6	1.586 2897	4770	0.2226	21 36
März 3	4 21.89	14.81	1.07	28 1.8	45.6	2.3	586 7667	5162	2228	21 20
7	4 7.08	13.43	0.99	28 47.4	40.6	2.0	587 2829	5521	2231	21 4
11	3 53.65	11.98	0.91	29 28.0	35.6	1.8	587 8350	5847	2234	20 48
15	3 41.67	10.47	0.83	30 3.6	30.4	1.5	588 4197	6141	2237	20 32
19	8 3 31.20	8.91	+0.75	+23 30 34.0	25.2	−1.2	1.589 0338	6401	0.2240	20 16
23	3 22.29	7.28	0.66	30 59.2	19.9	0.9	589 6739	6629	2243	20 0
27	3 15.01	5.60	0.57	31 19.1	14.5	0.6	590 3368	6822	2247	19 44
31	3 9.41	3.90	0.47	31 33.6	9.2	−0.3	591 0190	6976	2250	19 29
April 4	3 5.51	2.16	0.38	31 42.8	3.9	0.0	591 7166	7094	2254	19 13
8	8 3 3.35	0.42	+0.28	+23 31 46.7	1.3	+0.3	1.592 4260	7174	0.2257	18 57
12	3 2.93	1.32	0.18	31 45.4	6.4	0.6	593 1434	7218	2261	18 41
16	3 4.25	3.07	+0.08	31 39.0	11.5	0.9	593 8652	7228	2265	18 26
20	3 7.32	4.80	−0.02	31 27.5	16.4	1.2	594 5880	7206	2269	18 10
24	3 12.12	6.52	0.12	31 11.1	21.3	1.4	595 3086	7150	2272	17 54
28	8 3 18.64	8.23	−0.22	+23 30 49.8	26.0	+1.7	1.596 0236	7058	0.2276	17 38
Mai 2	3 26.87	9.89	0.31	30 23.8	30.4	2.0	596 7294	6932	2280	17 23
6	3 36.76	11.51	0.41	29 53.4	34.8	2.2	597 4226	6772	2283	17 7
10	3 48.27	13.08	0.50	29 18.6	38.9	2.5	598 0998	6584	2287	16 51
14	4 1.35	14.59	0.59	28 39.7	42.8	2.7	598 7582	6370	2291	16 36
18	8 4 15.94	16.06	−0.68	+23 27 56.9	46.5	+2.9	1.599 3952	6128	0.2294	16 20
22	4 32.00	17.47	0.76	27 10.4	50.0	3.1	600 0080	5860	2297	16 5
26	4 49.47	18.80	0.84	26 20.4	53.4	3.3	600 5940	5565	2300	15 50
30	5 8.27	20.07	0.92	25 27.0	56.4	3.5	601 1505	5245	2303	15 34
Juni 3	5 28.34	21.26	0.99	24 30.6	59.1	3.7	601 6750	4902	2306	15 19
7	8 5 49.60	22.36	−1.05	+23 23 31.5	61.6	+3.8	1.602 1652	4541	0.2309	15 4
11	6 11.96	23.38	1.12	22 29.9	63.9	4.0	602 6193	4163	2311	14 48
15	6 35.34	24.31	1.18	21 26.0	65.8	4.1	603 0356	3769	2313	14 33
19	6 59.65	25.16	1.23	20 20.2	67.6	4.2	603 4125	3357	2315	14 17
23	7 24.81	25.93	1.28	19 12.6	69.0	4.3	603 7482	2931	2317	14 2
27	7 50.74	26.59	1.32	18 3.6	70.2	4.4	604 0413	2490	2319	13 47
Juli 1	8 8 17.33		−1.35	+23 16 53.4		+4.4	1.604 2903		0.2320	13 31

Tag		0h Welt-Zeit Rektaszension 1950.0		Fixstern-aberration	Deklination 1950.0		Fixstern-aberration	log Δ		Lichtzeit	Obere Kulmination in Greenwich
1938		h m s	s	s	° ′ ″	″	″			d	h m
Juli	1	8 8 17.33	27.16	−1.35	+23 16 53.4	71.0	+4.4	1.604 2903	2039	0.2320	13 31
	5	8 44.49	27.63	1.38	15 42.4	71.4	4.5	604 4942	1580	2321	13 16
	9	9 12.12	27.99	1.41	14 31.0	71.6	4.5	604 6522	1116	2322	13 1
	13	9 40.11	28.26	1.43	13 19.4	71.5	4.5	604 7638	647	2322	12 46
	17	10 8.37	28.44	1.44	12 7.9	71.2	4.5	604 8285	173	2323	12 30
	21	8 10 36.81	28.52	−1.45	+23 10 56.7	70.5	+4.4	1.604 8458	306	0.2323	12 15
	25	11 5.33	28.49	1.45	9 46.2	69.4	4.4	604 8152	787	2323	12 0
	29	11 33.82	28.36	1.44	8 36.8	68.1	4.3	604 7365	1265	2322	11 45
Aug.	2	12 2.18	28.12	1.43	7 28.7	66.4	4.2	604 6100	1740	2322	11 29
	6	12 30.30	27.77	1.42	6 22.3	64.4	4.1	604 4360	2207	2321	11 14
	10	8 12 58.07	27.34	−1.39	+23 5 17.9	62.1	+4.0	1.604 2153	2667	0.2320	10 59
	14	13 25.41	26.82	1.36	4 15.8	59.6	3.8	603 9486	3121	2318	10 44
	18	13 52.23	26.21	1.33	3 16.2	56.7	3.7	603 6365	3567	2316	10 28
	22	14 18.44	25.48	1.29	2 19.5	53.5	3.5	603 2798	4003	2314	10 13
	26	14 43.92	24.65	1.24	1 26.0	50.0	3.3	602 8795	4423	2312	9 58
	30	8 15 8.57	23.73	−1.19	+23 0 36.0	46.2	+3.1	1.602 4372	4827	0.2310	9 43
Sept.	3	15 32.30	22.72	1.13	+22 59 49.8	42.2	2.8	601 9545	5213	2307	9 28
	7	15 55.02	21.64	1.07	59 7.6	37.9	2.6	601 4332	5579	2305	9 12
	11	16 16.66	20.48	1.00	58 29.7	33.4	2.3	600 8753	5925	2302	8 57
	15	16 37.14	19.22	0.93	57 56.3	28.6	2.1	600 2828	6252	2299	8 42
	19	8 16 56.36	17.89	−0.86	+22 57 27.7	23.6	+1.8	1.599 6576	6555	0.2295	8 26
	23	17 14.25	16.50	0.78	57 4.1	18.4	1.5	599 0021	6832	2292	8 11
	27	17 30.75	15.02	0.69	56 45.7	13.1	1.2	598 3189	7081	2288	7 55
Okt.	1	17 45.77	13.49	0.61	56 32.6	7.6	0.9	597 6108	7298	2284	7 40
	5	17 59.26	11.91	0.52	56 25.0	2.0	0.6	596 8810	7484	2281	7 24
	9	8 18 11.17	10.29	−0.42	+22 56 23.0	3.6	+0.2	1.596 1326	7642	0.2277	7 9
	13	18 21.46	8.61	0.33	56 26.6	9.4	−0.1	595 3684	7770	2273	6 53
	17	18 30.07	6.89	0.23	56 36.0	15.3	0.4	594 5914	7863	2269	6 37
	21	18 36.96	5.15	0.13	56 51.3	21.2	0.8	593 8051	7919	2265	6 22
	25	18 42.11	3.38	−0.03	57 12.5	27.0	1.1	593 0132	7938	2260	6 6
	29	8 18 45.49	1.61	+0.07	+22 57 39.5	32.7	−1.4	1.592 2194	7919	0.2256	5 50
Nov.	2	18 47.10	0.16	0.17	58 12.2	38.4	1.7	591 4275	7863	2252	5 34
	6	18 46.94	1.93	0.27	58 50.6	43.8	2.0	590 6412	7770	2248	5 19
	10	18 45.01	3.68	0.37	+22 59 34.4	49.2	2.3	589 8642	7642	2244	5 3
	14	18 41.33	5.42	0.46	+23 0 23.6	54.4	2.6	589 1000	7477	2240	4 47
	18	8 18 35.91	7.12	+0.56	+23 1 18.0	59.5	−2.9	1.588 3523	7273	0.2236	4 31
	22	18 28.79	8.78	0.65	2 17.5	64.2	3.2	587 6250	7031	2233	4 16
	26	18 20.01	10.39	0.74	3 21.7	68.5	3.4	586 9219	6752	2229	4 0
	30	18 9.62	11.93	0.83	4 30.2	72.6	3.6	586 2467	6437	2226	3 44
Dez.	4	17 57.69	13.39	0.91	5 42.8	76.3	3.8	585 6030	6091	2222	3 28
	8	8 17 44.30	14.77	+0.99	+23 6 59.1	79.6	−4.0	1.584 9939	5716	0.2219	3 12
	12	17 29.53	16.08	1.06	8 18.7	82.6	4.2	584 4223	5310	2216	2 56
	16	17 13.45	17.29	1.13	9 41.3	85.1	4.3	583 8913	4873	2213	2 40
	20	16 56.16	18.38	1.19	11 6.4	87.2	4.5	583 4040	4410	2211	2 24
	24	16 37.78	19.37	1.25	12 33.6	88.8	4.6	582 9630	3921	2209	2 8
	28	16 18.41	20.23	1.30	14 2.4	89.9	4.6	582 5709	3411	2207	1 52
	32	8 15 58.18		+1.34	+23 15 32.3		−4.7	1.582 2298		0.2205	1 36

0^h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1938												
Jan. 0	+0.155 023	+17 252	− 49	−4	−0.890 830	+ 2 682	+279	+3	−0.386 370	+1 164	+121	+3
1	0.172 275	17 199	53	+4	0.888 148	2 959	277	−1	0.385 206	1 284	120	0
2	0.189 474	17 140	59	+5	0.885 189	3 237	278	+3	0.383 922	1 404	120	+2
3	0.206 614	17 075	65	+3	0.881 952	3 512	275	−3	0.382 518	1 524	120	+5
4	0.223 689	17 004	71	+1	0.878 440	3 786	274	−2	0.380 994	1 643	119	+2
5	0.240 693	16 929	75	+4	0.874 654	4 060	274	+4	0.379 351	1 761	118	−2
6	+0.257 622	+16 846	− 83	−4	−0.870 594	+ 4 332	+272	+3	−0.377 590	+1 879	+118	−2
7	0.274 468	16 760	86	+3	0.866 262	4 601	269	−1	0.375 711	1 995	116	−5
8	0.291 228	16 668	92	0	0.861 661	4 870	269	+5	0.373 716	2 112	117	+2
9	0.307 896	16 570	98	−5	0.856 791	5 137	267	+4	0.371 604	2 227	115	0
10	0.324 466	16 467	103	−5	0.851 654	5 400	263	−3	0.369 377	2 342	115	+3
11	0.340 933	16 360	107	−1	0.846 254	5 663	263	+3	0.367 035	2 456	114	+1
12	+0.357 293	+16 248	−112	−2	−0.840 591	+ 5 923	+260	+2	−0.364 579	+2 568	+112	−5
13	0.373 541	16 131	117	−3	0.834 668	6 182	259	+3	0.362 011	2 680	112	−2
14	0.389 672	16 009	122	−3	0.828 486	6 437	255	−5	0.359 331	2 791	111	0
15	0.405 681	15 884	125	+2	0.822 049	6 691	254	−3	0.356 540	2 902	111	+4
16	0.421 565	15 753	131	−3	0.815 358	6 943	252	−2	0.353 638	3 011	109	0
17	0.437 318	15 618	135	−1	0.808 415	7 193	250	−3	0.350 627	3 120	109	0
18	+0.452 936	+15 479	−139	+2	−0.801 222	+ 7 440	+247	−5	−0.347 507	+3 227	+107	−5
19	0.468 415	15 335	144	+2	0.793 782	7 687	247	+2	0.344 280	3 334	107	−4
20	0.483 750	15 187	148	+3	0.786 095	7 930	243	−2	0.340 946	3 439	105	−5
21	0.498 937	15 033	154	−2	0.778 165	8 172	242	+2	0.337 507	3 545	106	+3
22	0.513 970	14 875	158	0	0.769 993	8 412	240	+2	0.333 962	3 649	104	+1
23	0.528 845	14 713	162	+3	0.761 581	8 648	236	−3	0.330 313	3 752	103	−2
24	+0.543 558	+14 545	−168	−2	−0.752 933	+ 8 883	+235	+1	−0.326 561	+3 853	+101	−5
25	0.558 103	14 373	172	−2	0.744 050	9 115	232	0	0.322 708	3 954	101	−2
26	0.572 476	14 196	177	−4	0.734 935	9 343	228	−3	0.318 754	4 053	99	−3
27	0.586 672	14 014	182	−4	0.725 592	9 570	227	+4	0.314 701	4 151	98	0
28	0.600 686	13 829	185	+1	0.716 022	9 793	223	+3	0.310 550	4 248	97	+3
29	0.614 515	13 638	191	−4	0.706 229	10 013	220	+4	0.306 302	4 344	96	+3
30	+0.628 153	+13 443	−195	−4	−0.696 216	+10 230	+217	+5	−0.301 958	+4 437	+ 93	−3
31	0.641 596	13 243	200	−4	0.685 986	10 444	214	+4	0.297 521	4 530	93	+1
Febr. 1	0.654 839	13 040	203	+3	0.675 542	10 653	209	−3	0.292 991	4 621	91	−2
2	0.667 879	12 832	208	+3	0.664 889	10 860	207	0	0.288 370	4 710	89	−4
3	0.680 711	12 621	211	+5	0.654 029	11 062	202	−4	0.283 660	4 797	87	−4
4	0.693 332	12 405	216	−1	0.642 967	11 261	199	−2	0.278 863	4 884	87	+4
5	+0.705 737	+12 185	−220	−5	−0.631 706	+11 456	+195	−3	−0.273 979	+4 968	+ 84	+2
6	0.717 922	11 962	223	−4	0.620 250	11 646	190	−4	0.269 011	5 051	83	+3
7	0.729 884	11 735	227	−4	0.608 604	11 834	188	+2	0.263 960	5 132	81	+1
8	0.741 619	11 506	229	+2	0.596 770	12 016	182	−4	0.258 828	5 211	79	−1
9	0.753 125	+11 273	233	+1	0.584 754	+12 195	179	−2	0.253 617	+5 288	77	−1
10	+0.764 398		−236	+1	−0.572 559		+174	−3	−0.248 329		+ 77	+4

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0^h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1938												
Febr. 10	+0.764 398	+11 037	−236	+1	−0.572 559	+12 369	+174	−3	−0.248 329	+5 365	+77	+4
11	0.775 435	10 799	238	+3	0.560 190	12 541	172	+3	0.242 964	5 438	73	−2
12	0.786 234	10 557	242	−1	0.547 649	12 707	166	−4	0.237 526	5 511	73	+3
13	0.796 791	10 313	244	+2	0.534 942	12 870	163	−3	0.232 015	5 582	71	+1
14	0.807 104	10 067	246	+5	0.522 072	13 029	159	−2	0.226 433	5 651	69	−1
15	0.817 171	9 817	250	0	0.509 043	13 185	156	+1	0.220 782	5 718	67	−2
16	+0.826 988	+ 9 565	−252	+2	−0.495 858	+13 336	+151	−2	−0.215 064	+5 785	+67	+4
17	0.836 553	9 310	255	+2	0.482 522	13 484	148	+1	0.209 279	5 849	64	−2
18	0.845 863	9 053	257	+4	0.469 038	13 629	145	+3	0.203 430	5 911	62	−4
19	0.854 916	8 792	261	0	0.455 409	13 768	139	−5	0.197 519	5 972	61	−1
20	0.863 708	8 529	263	+2	0.441 641	13 904	136	−3	0.191 547	6 031	59	0
21	0.872 237	8 264	265	+3	0.427 737	14 036	132	−1	0.185 516	6 088	57	+1
22	+0.880 501	+ 7 995	−269	−4	−0.413 701	+14 164	+128	0	−0.179 428	+6 144	+56	+5
23	0.888 496	7 724	271	−4	0.399 537	14 287	123	−2	0.173 284	6 197	53	+3
24	0.896 220	7 450	274	−4	0.385 250	14 406	119	−2	0.167 087	6 249	52	+5
25	0.903 670	7 175	275	+2	0.370 844	14 520	114	−2	0.160 838	6 299	50	+2
26	0.910 845	6 897	278	0	0.356 324	14 631	111	+3	0.154 539	6 346	47	−4
27	0.917 742	6 616	281	−3	0.341 693	14 736	105	−3	0.148 193	6 391	45	−5
28	+0.924 358	+ 6 334	−282	+2	−0.326 957	+14 836	+100	−5	−0.141 802	+6 435	+44	0
März 1	0.930 692	6 050	284	+3	0.312 121	14 932	96	−1	0.135 367	6 476	41	−1
2	0.936 742	5 764	286	+1	0.297 189	15 023	91	+1	0.128 891	6 516	40	+3
3	0.942 506	5 476	288	−2	0.282 166	15 109	86	+1	0.122 375	6 553	37	0
4	0.947 982	5 186	290	−4	0.267 057	15 190	81	+2	0.115 822	6 588	35	−3
5	0.953 168	4 896	290	+1	0.251 867	15 266	76	+3	0.109 234	6 620	32	−5
6	+0.958 064	+ 4 604	−292	0	−0.236 601	+15 337	+ 71	+2	−0.102 614	+6 651	+31	0
7	0.962 668	4 312	292	+1	0.221 264	15 403	66	−1	0.095 963	6 680	29	+3
8	0.966 980	4 018	294	−3	0.205 861	15 463	60	−4	0.089 283	6 706	26	0
9	0.970 998	3 724	294	−2	0.190 398	15 520	57	+2	0.082 577	6 731	25	+2
10	0.974 722	3 430	294	−1	0.174 878	15 571	51	−3	0.075 846	6 752	21	−3
11	0.978 152	3 134	296	−4	0.159 307	15 617	46	−5	0.069 094	6 773	21	+4
12	+0.981 286	+ 2 840	−294	+4	−0.143 690	+15 659	+ 42	−4	−0.062 321	+6 792	+19	+5
13	0.984 126	2 544	296	+1	0.128 031	15 696	37	−4	0.055 529	6 807	15	−2
14	0.986 670	2 249	295	+4	0.112 335	15 729	33	−1	0.048 722	6 822	15	+4
15	0.988 919	1 953	296	0	0.096 606	15 757	28	−1	0.041 900	6 835	13	+4
16	0.990 872	1 656	297	−3	0.080 849	15 782	25	+4	0.035 065	6 845	10	−1
17	0.992 528	1 360	296	+3	0.065 067	15 801	19	−1	0.028 220	6 854	9	0
18	+0.993 888	+ 1 064	−296	+4	−0.049 266	+15 817	+ 16	+1	−0.021 366	+6 860	+ 6	−3
19	0.994 952	766	298	−1	0.033 449	15 827	10	−5	0.014 506	6 865	5	+1
20	0.995 718	470	296	+4	0.017 622	15 833	6	−4	0.007 641	6 868	3	+3
21	0.996 188	+ 172	298	−3	−0.001 789	15 835	+ 2	+1	−0.000 773	6 869	+ 1	+3
22	0.996 360	− 126	298	−3	+0.014 046	+15 832	− 3	+3	+0.006 096	+6 867	− 2	0
23	+0.996 234		−297	+2	+0.029 878		− 7	+5	+0.012 963		− 3	+4

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1938												
März 23	+0.996 234	− 423	−297	+2	+0.029 878	+15 825	− 7	+5	+0.012 963	+6 864	− 3	+4
24	0.995 811	720	297	+3	0.045 703	15 813	12	+1	0.019 827	6 859	5	+4
25	0.995 091	1 017	297	+1	0.061 516	15 795	18	−5	0.026 686	6 851	8	0
26	0.994 074	1 315	298	−3	0.077 311	15 773	22	−1	0.033 537	6 842	9	+2
27	0.992 759	1 610	295	+4	0.093 084	15 747	26	+5	0.040 379	6 830	12	−2
28	0.991 149	1 907	297	−4	0.108 831	15 716	31	+5	0.047 209	6 816	14	−2
29	+0.989 242	− 2 203	−296	−3	+0.124 547	+15 680	− 36	+3	+0.054 025	+6 800	−16	0
30	0.987 039	2 497	294	+3	0.140 227	15 638	42	−3	0.060 825	6 783	17	+2
31	0.984 542	2 791	294	+2	0.155 865	15 592	46	−2	0.067 608	6 762	21	−5
April 1	0.981 751	3 083	292	+3	0.171 457	15 541	51	−2	0.074 370	6 739	23	−4
2	0.978 668	3 375	292	−3	0.186 998	15 484	57	−4	0.081 109	6 716	23	+3
3	0.975 293	3 665	290	−4	0.202 482	15 424	60	+2	0.087 825	6 689	27	−3
4	+0.971 628	− 3 954	−289	−4	+0.217 906	+15 358	− 66	−1	+0.094 514	+6 660	−29	−5
5	0.967 674	4 239	285	+4	0.233 264	15 287	71	−2	0.101 174	6 630	30	−2
6	0.963 435	4 525	286	−4	0.248 551	15 213	74	+2	0.107 804	6 597	33	−5
7	0.958 910	4 807	282	+2	0.263 764	15 133	80	−3	0.114 401	6 563	34	−2
8	0.954 103	5 087	280	+3	0.278 897	15 049	84	−3	0.120 964	6 527	36	−2
9	0.949 016	5 366	279	−1	0.293 946	14 961	88	−1	0.127 491	6 489	38	−4
10	+0.943 650	− 5 642	−276	+1	+0.308 907	+14 870	− 91	+3	+0.133 980	+6 449	−40	−5
11	0.938 008	5 916	274	0	0.323 777	14 773	97	−2	0.140 429	6 407	42	−4
12	0.932 092	6 189	273	−4	0.338 550	14 674	99	+3	0.146 836	6 365	42	+3
13	0.925 903	6 458	269	+1	0.353 224	14 570	104	−1	0.153 201	6 320	45	−2
14	0.919 445	6 727	269	−5	0.367 794	14 462	108	−1	0.159 521	6 273	47	−5
15	0.912 718	6 993	266	−1	0.382 256	14 351	111	+3	0.165 794	6 225	48	−3
16	+0.905 725	− 7 256	−263	+3	+0.396 607	+14 236	−115	+4	+0.172 019	+6 175	−50	−3
17	0.898 469	7 518	262	−2	0.410 843	14 117	119	+3	0.178 194	6 123	52	−3
18	0.890 951	7 778	260	−5	0.424 960	13 994	123	+2	0.184 317	6 070	53	+1
19	0.883 173	8 036	258	−5	0.438 954	13 867	127	+2	0.190 387	6 015	55	+2
20	0.875 137	8 291	255	−1	0.452 821	13 737	130	+3	0.196 402	5 958	57	+3
21	0.866 846	8 544	253	0	0.466 558	13 601	136	−3	0.202 360	5 900	58	+5
22	+0.858 302	− 8 794	−250	+2	+0.480 159	+13 464	−137	+4	+0.208 260	+5 840	−60	+2
23	0.849 508	9 042	248	−1	0.493 623	13 320	144	−3	0.214 100	5 777	63	−3
24	0.840 466	9 288	246	−5	0.506 943	13 175	145	+4	0.219 877	5 714	63	+4
25	0.831 178	9 531	243	−4	0.520 118	13 024	151	−2	0.225 591	5 649	65	+3
26	0.821 647	9 771	240	−2	0.533 142	12 870	154	−1	0.231 240	5 582	67	−1
27	0.811 876	10 008	237	0	0.546 012	12 711	159	−3	0.236 822	5 512	70	−4
28	+0.801 868	−10 242	−234	0	+0.558 723	+12 550	−161	+4	+0.242 334	+5 443	−69	+4
29	0.791 626	10 473	231	−1	0.571 273	12 384	166	+1	0.247 777	5 370	73	−2
30	0.781 153	10 701	228	−2	0.583 657	12 213	171	−4	0.253 147	5 297	73	+1
Mai 1	0.770 452	10 924	223	+3	0.595 870	12 040	173	+2	0.258 444	5 221	76	−4
2	0.759 528	−11 145	221	−2	0.607 910	+11 863	177	+2	0.263 665	+5 144	77	−2
3	+0.748 383		−216	+1	+0.619 773		−181	+1	+0.268 809		−78	+1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
	Mittleres Äquinoktium 1950.0											
1938												
Mai 3	+0.748 383	−11 361	−216	+1	+0.619 773	+11 682	−181	+1	+0.268 809	+5 066	− 78	+1
4	0.737 022	11 573	212	+1	0.631 455	11 499	183	+3	0.273 875	4 987	79	+3
5	0.725 449	11 783	210	−4	0.642 954	11 311	188	−4	0.278 862	4 905	82	−2
6	0.713 666	11 987	204	+4	0.654 265	11 121	190	0	0.283 767	4 824	81	+3
7	0.701 679	12 187	200	+5	0.665 386	10 929	192	+4	0.288 591	4 740	84	−4
8	0.689 492	12 385	198	−2	0.676 315	10 733	196	+1	0.293 331	4 655	85	−5
9	+0.677 107	−12 577	−192	+3	+0.687 048	+10 536	−197	+4	+0.297 986	+4 569	− 86	−2
10	0.664 530	12 767	190	−4	0.697 584	10 334	202	−4	0.302 555	4 483	86	+3
11	0.651 763	12 953	186	−4	0.707 918	10 132	202	+3	0.307 038	4 395	88	0
12	0.638 810	13 134	181	+1	0.718 050	9 926	206	−1	0.311 433	4 306	89	−2
13	0.625 676	13 313	179	−2	0.727 976	9 718	208	0	0.315 739	4 215	91	−5
14	0.612 363	13 487	174	+2	0.737 694	9 508	210	+1	0.319 954	4 124	91	+1
15	+0.598 876	−13 658	−171	+1	+0.747 202	+ 9 295	−213	−1	+0.324 078	+4 032	− 92	+4
16	0.585 218	13 825	167	+2	0.756 497	9 080	215	−1	0.328 110	3 939	93	+5
17	0.571 393	13 988	163	+3	0.765 577	8 862	218	−4	0.332 049	3 844	95	+2
18	0.557 405	14 148	160	0	0.774 439	8 642	220	−2	0.335 893	3 749	95	+4
19	0.543 257	14 303	155	+2	0.783 081	8 420	222	0	0.339 642	3 652	97	+1
20	0.528 954	14 455	152	−2	0.791 501	8 195	225	−2	0.343 294	3 555	97	+3
21	+0.514 499	−14 603	−148	−3	+0.799 696	+ 7 968	−227	−2	+0.346 849	+3 456	− 99	−2
22	0.499 896	14 747	144	−3	0.807 664	7 738	230	−4	0.350 305	3 356	100	−4
23	0.485 149	14 887	140	−1	0.815 402	7 507	231	+1	0.353 661	3 255	101	−2
24	0.470 262	15 022	135	+4	0.822 909	7 272	235	−2	0.356 916	3 154	101	+3
25	0.455 240	15 153	131	+3	0.830 181	7 037	235	+4	0.360 070	3 051	103	+2
26	0.440 087	15 280	127	0	0.837 218	6 797	240	−3	0.363 121	2 948	103	+3
27	+0.424 807	−15 403	−123	−3	+0.844 015	+ 6 557	−240	+4	+0.366 069	+2 843	−105	−1
28	0.409 404	15 520	117	+1	0.850 572	6 314	243	+2	0.368 912	2 738	105	−1
29	0.393 884	15 633	113	−2	0.856 886	6 069	245	0	0.371 650	2 631	107	−4
30	0.378 251	15 741	108	−3	0.862 955	5 822	247	0	0.374 281	2 524	107	0
31	0.362 510	15 844	103	−4	0.868 777	5 574	248	+3	0.376 805	2 417	107	+5
Juni 1	0.346 666	15 942	98	−3	0.874 351	5 324	250	+3	0.379 222	2 309	108	+4
2	+0.330 724	−16 035	− 93	−2	+0.879 675	+ 5 074	−250	+4	+0.381 531	+2 200	−109	0
3	0.314 689	16 123	88	+1	0.884 749	4 821	253	−4	0.383 731	2 091	109	0
4	0.298 566	16 206	83	+3	0.889 570	4 568	253	−2	0.385 822	1 981	110	−2
5	0.282 360	16 284	78	+4	0.894 138	4 314	254	0	0.387 803	1 872	109	+1
6	0.266 076	16 358	74	+2	0.898 452	4 060	254	+3	0.389 675	1 761	111	−5
7	0.249 718	16 427	69	+3	0.902 512	3 804	256	0	0.391 436	1 650	111	−4
8	+0.233 291	−16 491	− 64	+3	+0.906 316	+ 3 549	−255	+5	+0.393 086	+1 540	−110	+2
9	0.216 800	16 552	61	−2	0.909 865	3 292	257	0	0.394 626	1 428	112	−2
10	0.200 248	16 607	55	+2	0.913 157	3 035	257	−1	0.396 054	1 317	111	+2
11	0.183 641	16 658	51	+2	0.916 192	2 777	258	−3	0.397 371	1 205	112	0
12	0.166 983	−16 705	47	0	0.918 969	+ 2 518	259	−3	0.398 576	+1 093	112	+1
13	+0.150 278		− 42	+1	+0.921 487		−258	+3	+0.399 669		−112	0

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1950.0 X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1938												
Juni 13	+0.150 278	−16 747	− 42	+1	+0.921 487	+2 260	−258	+3	+0.399 669	+ 981	−112	0
14	0.133 531	16 785	38	−1	0.923 747	2 000	260	−1	0.400 650	868	113	−4
15	0.116 746	16 818	33	0	0.925 747	1 740	260	+1	0.401 518	755	113	−4
16	0.099 928	16 847	29	−2	0.927 487	1 480	260	+2	0.402 273	642	113	−3
17	0.083 081	16 872	25	−3	0.928 967	1 219	261	−1	0.402 915	528	114	−4
18	0.066 209	16 891	19	+1	0.930 186	957	262	−5	0.403 443	415	113	+3
19	+0.049 318	−16 907	− 16	−2	+0.931 143	+ 695	−262	−3	+0.403 858	+ 302	−113	+3
20	0.032 411	16 917	10	+2	0.931 838	433	262	−1	0.404 160	187	115	−4
21	+0.015 494	16 923	6	−1	0.932 271	+ 170	263	−1	0.404 347	+ 73	114	−1
22	−0.001 429	16 925	− 2	−3	0.932 441	− 93	263	+2	0.404 420	− 41	114	+2
23	0.018 354	16 921	+ 4	+2	0.932 348	356	263	+4	0.404 379	155	114	+4
24	0.035 275	16 912	9	+2	0.931 992	620	264	+1	0.404 224	269	114	+2
25	−0.052 187	−16 899	+ 13	−1	+0.931 372	− 883	−263	+4	+0.403 955	− 384	−115	−4
26	0.069 086	16 880	19	+1	0.930 489	1 147	264	0	0.403 571	499	115	−4
27	0.085 966	16 856	24	+1	0.929 342	1 411	264	−1	0.403 072	612	113	+4
28	0.102 822	16 827	29	+1	0.927 931	1 673	262	+3	0.402 460	727	115	−1
29	0.119 649	16 792	35	+3	0.926 258	1 936	263	−3	0.401 733	840	113	+5
30	0.136 441	16 753	39	−2	0.924 322	2 198	262	−4	0.400 893	953	113	+3
Juli 1	−0.153 194	−16 708	+ 45	−1	+0.922 124	−2 458	−260	−1	+0.399 940	−1 066	−113	−1
2	0.169 902	16 659	49	−4	0.919 666	2 718	260	−5	0.398 874	1 179	113	−4
3	0.186 561	16 605	54	−2	0.916 948	2 977	259	−5	0.397 695	1 291	112	−1
4	0.203 166	16 546	59	+1	0.913 971	3 234	257	0	0.396 404	1 402	111	+2
5	0.219 712	16 482	64	+3	0.910 737	3 490	256	+2	0.395 002	1 513	111	0
6	0.236 194	16 415	67	−1	0.907 247	3 744	254	+5	0.393 489	1 624	111	−1
7	−0.252 609	−16 342	+ 73	+4	+0.903 503	−3 998	−254	0	+0.391 865	−1 733	−109	+5
8	0.268 951	16 266	76	0	0.899 505	4 250	252	+1	0.390 132	1 843	110	+2
9	0.285 217	16 185	81	+3	0.895 255	4 501	251	+1	0.388 289	1 951	108	+5
10	0.301 402	16 099	86	+5	0.890 754	4 750	249	+3	0.386 338	2 060	109	0
11	0.317 501	16 010	89	−1	0.886 004	4 999	249	−1	0.384 278	2 167	107	+2
12	0.333 511	15 917	93	−4	0.881 005	5 245	246	+3	0.382 111	2 275	108	−3
13	−0.349 428	−15 819	+ 98	0	+0.875 760	−5 491	−246	−1	+0.379 836	−2 381	−106	+1
14	0.365 247	15 717	102	+2	0.870 269	5 735	244	+1	0.377 455	2 487	106	−2
15	0.380 964	15 610	107	+5	0.864 534	5 977	242	+2	0.374 968	2 593	106	−4
16	0.396 574	15 500	110	−1	0.858 557	6 219	242	−2	0.372 375	2 697	104	0
17	0.412 074	15 386	114	−2	0.852 338	6 458	239	+1	0.369 678	2 802	105	−4
18	0.427 460	15 266	120	+4	0.845 880	6 697	239	−3	0.366 876	2 905	103	+1
19	−0.442 726	−15 143	+123	−1	+0.839 183	−6 933	−236	0	+0.363 971	−3 008	−103	+1
20	0.457 869	15 016	127	−3	0.832 250	7 169	236	−5	0.360 963	3 110	102	+3
21	0.472 885	14 884	132	0	0.825 081	7 403	234	−2	0.357 853	3 211	101	+4
22	0.487 769	14 747	137	+4	0.817 678	7 634	231	+5	0.354 642	3 312	101	+1
23	0.502 516	−14 606	141	+1	0.810 044	−7 864	230	+3	0.351 330	−3 411	99	+4
24	−0.517 122		+145	−2	+0.802 180		−228	+2	+0.347 919		−100	−2

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0ʰ Welt-Zeit	X	Diff.		ΔX*)	Y	Diff.		ΔY*)	Z	Diff.		ΔZ*)
	Mittleres Äquinoktium 1950.0											
1938												
Juli 24	−0.517 122	−14 461	+145	−2	+0.802 180	− 8 092	−228	+2	+0.347 919	−3 511	−100	−2
25	0.531 583	14 311	150	+1	0.794 088	8 318	226	−1	0.344 408	3 608	97	+2
26	0.545 894	14 156	155	+4	0.785 770	8 542	224	−3	0.340 800	3 705	97	−1
27	0.560 050	13 996	160	+5	0.777 228	8 763	221	−2	0.337 095	3 801	96	−2
28	0.574 046	13 833	163	−3	0.768 465	8 982	219	−2	0.333 294	3 896	95	−1
29	0.587 879	13 666	167	−5	0.759 483	9 197	215	+4	0.329 398	3 988	92	+4
30	−0.601 545	−13 494	+172	0	+0.750 286	− 9 409	−212	+4	+0.325 410	−4 081	− 93	−4
31	0.615 039	13 318	176	+4	0.740 877	9 619	210	−2	0.321 329	4 172	91	−3
Aug. 1	0.628 357	13 138	180	+5	0.731 258	9 826	207	−5	0.317 157	4 261	89	0
2	0.641 495	12 955	183	+1	0.721 432	10 030	204	−4	0.312 896	4 350	89	−2
3	0.654 450	12 769	186	−2	0.711 402	10 230	200	0	0.308 546	4 436	86	+4
4	0.667 219	12 579	190	0	0.701 172	10 428	198	0	0.304 110	4 522	86	+1
5	−0.679 798	−12 385	+194	+3	+0.690 744	−10 622	−194	+3	+0.299 588	−4 606	− 84	0
6	0.692 183	12 189	196	−1	0.680 122	10 814	192	+1	0.294 982	4 690	84	−5
7	0.704 372	11 989	200	+2	0.669 308	11 002	188	+4	0.290 292	4 772	82	−1
8	0.716 361	11 785	204	+4	0.658 306	11 188	186	+1	0.285 520	4 852	80	+5
9	0.728 146	11 580	205	−3	0.647 118	11 370	182	+3	0.280 668	4 931	79	+4
10	0.739 726	11 370	210	+2	0.635 748	11 550	180	0	0.275 737	5 009	78	+2
11	−0.751 096	−11 157	+213	+2	+0.624 198	−11 726	−176	+2	+0.270 728	−5 086	− 77	−1
12	0.762 253	10 942	215	−4	0.612 472	11 900	174	0	0.265 642	5 161	75	0
13	0.773 195	10 724	218	−4	0.600 572	12 070	170	+4	0.260 481	5 235	74	−2
14	0.783 919	10 502	222	+1	0.588 502	12 237	167	+5	0.255 246	5 308	73	−4
15	0.794 421	10 277	225	+3	0.576 265	12 401	164	+2	0.249 938	5 380	72	−4
16	0.804 698	10 049	228	+2	0.563 864	12 563	162	−3	0.244 558	5 449	69	+2
17	−0.814 747	− 9 818	+231	−1	+0.551 301	−12 721	−158	0	+0.239 109	−5 518	− 69	−1
18	0.824 565	9 585	233	−4	0.538 580	12 875	154	+5	0.233 591	5 585	67	−1
19	0.834 150	9 347	238	+3	0.525 705	13 027	152	+1	0.228 006	5 651	66	−1
20	0.843 497	9 106	241	+2	0.512 678	13 175	148	+3	0.222 355	5 715	64	+2
21	0.852 603	8 863	243	−4	0.499 503	13 319	144	+5	0.216 640	5 777	62	+4
22	0.861 466	8 617	246	−5	0.486 184	13 460	141	+3	0.210 863	5 838	61	+1
23	−0.870 083	− 8 367	+250	0	+0.472 724	−13 597	−137	+3	+0.205 025	−5 898	− 60	−2
24	0.878 450	8 114	253	+3	0.459 127	13 729	132	+5	0.199 127	5 955	57	+4
25	0.886 564	7 858	256	+4	0.445 398	13 859	130	−2	0.193 172	6 010	55	+4
26	0.894 422	7 600	258	0	0.431 539	13 982	123	+4	0.187 162	6 064	54	−1
27	0.902 022	7 340	260	−3	0.417 557	14 103	121	−3	0.181 098	6 117	53	−4
28	0.909 362	7 077	263	−1	0.403 454	14 218	115	−1	0.174 981	6 166	49	+3
29	−0.916 439	− 6 812	+265	0	+0.389 236	−14 330	−112	−5	+0.168 815	−6 214	− 48	0
30	0.923 251	6 545	267	0	0.374 906	14 437	107	−3	0.162 601	6 261	47	−5
31	0.929 796	6 277	268	−3	0.360 469	14 539	102	0	0.156 340	6 306	45	−4
Sept. 1	0.936 073	6 006	271	0	0.345 930	14 638	99	−2	0.150 034	6 348	42	+3
2	0.942 079	− 5 735	271	−4	0.331 292	−14 732	94	+1	0.143 686	−6 388	40	+3
3	−0.947 814		+274	+1	+0.316 560		− 89	+3	+0.137 298		− 40	−4

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1938												
Sept. 3	−0.947 814	−5 461	+274	+1	+0.316 560	−14 821	−89	+3	+0.137 298	−6 428	−40	−4
4	0.953 275	5 186	275	+1	0.301 739	14 908	87	−3	0.130 870	6 466	38	−3
5	0.958 461	4 910	276	−1	0.286 831	14 989	81	+4	0.124 404	6 500	34	+4
6	0.963 371	4 632	278	0	0.271 842	15 066	77	+5	0.117 904	6 535	35	−3
7	0.968 003	4 353	279	−2	0.256 776	15 139	73	+4	0.111 369	6 566	31	+4
8	0.972 356	4 073	280	−5	0.241 637	15 208	69	+1	0.104 803	6 596	30	+2
9	−0.976 429	−3 792	+281	−5	+0.226 429	−15 274	−66	−3	+0.098 207	−6 625	−29	−1
10	0.980 221	3 509	283	−1	0.211 155	15 334	60	+3	0.091 582	6 651	26	+3
11	0.983 730	3 225	284	0	0.195 821	15 391	57	+1	0.084 931	6 676	25	+1
12	0.986 955	2 941	284	−3	0.180 430	15 444	53	+1	0.078 255	6 699	23	+2
13	0.989 896	2 654	287	+5	0.164 986	15 492	48	+4	0.071 556	6 720	21	+3
14	0.992 550	2 366	288	+4	0.149 494	15 537	45	+1	0.064 836	6 739	19	+2
15	−0.994 916	−2 078	+288	−3	+0.133 957	−15 577	−40	+3	+0.058 097	−6 757	−18	−1
16	0.996 994	1 789	289	−5	0.118 380	15 613	36	+2	0.051 340	6 772	15	+2
17	0.998 783	1 497	292	+1	0.102 767	15 644	31	+2	0.044 568	6 786	14	−1
18	1.000 280	1 206	291	−5	0.087 123	15 672	28	−4	0.037 782	6 798	12	0
19	1.001 486	913	293	−1	0.071 451	15 694	22	−1	0.030 984	6 807	9	+4
20	1.002 399	618	295	+4	0.055 757	15 712	18	−3	0.024 177	6 814	7	+3
21	−1.003 017	− 324	+294	−3	+0.040 045	−15 725	−13	−2	+0.017 363	−6 820	− 6	−2
22	1.003 341	− 29	295	−4	0.024 320	15 732	7	+2	0.010 543	6 824	− 4	−3
23	1.003 370	+ 267	296	−2	+0.008 588	15 736	− 4	−4	+0.003 719	6 824	0	+4
24	1.003 103	562	295	−4	−0.007 148	15 733	+ 3	+2	−0.003 105	6 823	+ 1	+1
25	1.002 541	859	297	+1	0.022 881	15 727	6	−2	0.009 928	6 820	3	−3
26	1.001 682	1 154	295	−5	0.038 608	15 714	13	+5	0.016 748	6 815	5	−4
27	−1.000 528	+1 449	+295	−5	−0.054 322	−15 697	+17	+3	−0.023 563	−6 808	+ 7	−3
28	0.999 079	1 744	295	−3	0.070 019	15 675	22	+1	0.030 371	6 798	10	+3
29	0.997 335	2 038	294	−3	0.085 694	15 649	26	−3	0.037 169	6 786	12	+3
30	0.995 297	2 332	294	−1	0.101 343	15 618	31	−1	0.043 955	6 773	13	−3
Okt. 1	0.992 965	2 624	292	−5	0.116 961	15 581	37	+3	0.050 728	6 758	15	−4
2	0.990 341	2 916	292	0	0.132 542	15 541	40	−3	0.057 486	6 740	18	0
3	−0.987 425	+3 208	+292	+4	−0.148 083	−15 497	+44	−5	−0.064 226	−6 721	+19	−2
4	0.984 217	3 497	289	−2	0.163 580	15 446	51	+3	0.070 947	6 699	22	0
5	0.980 720	3 787	290	+4	0.179 026	15 393	53	−3	0.077 646	6 677	22	−4
6	0.976 933	4 075	288	+1	0.194 419	15 334	59	+1	0.084 323	6 651	26	+4
7	0.972 858	4 362	287	−1	0.209 753	15 272	62	−3	0.090 974	6 624	27	+4
8	0.968 496	4 647	285	−4	0.225 025	15 205	67	−1	0.097 598	6 595	29	+3
9	−0.963 849	+4 932	+285	0	−0.240 230	−15 134	+71	0	−0.104 193	−6 564	+31	+2
10	0.958 917	5 216	284	0	0.255 364	15 058	76	+3	0.110 757	6 532	32	−2
11	0.953 701	5 498	282	−4	0.270 422	14 979	79	−1	0.117 289	6 497	35	0
12	0.948 203	5 779	281	−5	0.285 401	14 895	84	+1	0.123 786	6 461	36	−3
13	0.942 424	+6 059	280	−4	0.300 296	−14 807	88	−1	0.130 247	−6 423	38	−3
14	−0.936 365		+279	−1	−0.315 103		+92	−2	−0.136 670		+40	−1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1938												
Okt. 14	−0.936 365	+ 6 338	+279	−1	−0.315 103	−14 715	+ 92	−2	−0.136 670	−6 383	+ 40	−1
15	0.930 027	6 616	278	+1	0.329 818	14 618	97	0	0.143 053	6 340	43	+3
16	0.923 411	6 892	276	0	0.344 436	14 516	102	+1	0.149 393	6 297	43	−2
17	0.916 519	7 168	276	+4	0.358 952	14 411	105	−5	0.155 690	6 250	47	+4
18	0.909 351	7 440	272	−3	0.373 363	14 300	111	−2	0.161 940	6 202	48	+1
19	0.901 911	7 713	273	+4	0.387 663	14 185	115	−4	0.168 142	6 152	50	−1
20	−0.894 198	+ 7 982	+269	−4	−0.401 848	−14 065	+120	−3	−0.174 294	−6 100	+ 52	−2
21	0.886 216	8 249	267	−5	0.415 913	13 941	124	−3	0.180 394	6 046	54	+1
22	0.877 967	8 515	266	0	0.429 854	13 811	130	+3	0.186 440	5 989	57	+4
23	0.869 452	8 777	262	−2	0.443 665	13 677	134	+3	0.192 429	5 932	57	−1
24	0.860 675	9 038	261	+4	0.457 342	13 539	138	+1	0.198 361	5 871	61	+5
25	0.851 637	9 295	257	+1	0.470 881	13 395	144	+4	0.204 232	5 809	62	+3
26	−0.842 342	+ 9 550	+255	+1	−0.484 276	−13 249	+146	−4	−0.210 041	−5 745	+ 64	0
27	0.832 792	9 801	251	−4	0.497 525	13 097	152	+1	0.215 786	5 680	65	−4
28	0.822 991	10 049	248	−5	0.510 622	12 942	155	−2	0.221 466	5 613	67	−3
29	0.812 942	10 294	245	−3	0.523 564	12 782	160	+1	0.227 079	5 543	70	+2
30	0.802 648	10 537	243	+1	0.536 346	12 619	163	−1	0.232 622	5 473	70	−3
31	0.792 111	10 775	238	−3	0.548 965	12 451	168	+1	0.238 095	5 400	73	−2
Nov. 1	−0.781 336	+11 011	+236	0	−0.561 416	−12 281	+170	−5	−0.243 495	−5 327	+ 73	−5
2	0.770 325	11 243	232	−2	0.573 697	12 106	175	−1	0.248 822	5 251	76	+2
3	0.759 082	11 471	228	−3	0.585 803	11 928	178	−1	0.254 073	5 173	78	+4
4	0.747 611	11 697	226	+2	0.597 731	11 746	182	0	0.259 246	5 095	78	−3
5	0.735 914	11 919	222	+1	0.609 477	11 561	185	−2	0.264 341	5 015	80	−2
6	0.723 995	12 137	218	−3	0.621 038	11 373	188	−5	0.269 356	4 933	82	−1
7	−0.711 858	+12 352	+215	−2	−0.632 411	−11 182	+191	−4	−0.274 289	−4 851	+ 82	−4
8	0.699 506	12 564	212	0	0.643 593	10 987	195	+1	0.279 140	4 765	86	+3
9	0.686 942	12 772	208	−2	0.654 580	10 788	199	+4	0.283 905	4 680	85	−5
10	0.674 170	12 977	205	0	0.665 368	10 588	200	−3	0.288 585	4 593	87	−4
11	0.661 193	13 179	202	+1	0.675 956	10 383	205	+1	0.293 178	4 504	89	0
12	0.648 014	13 377	198	−1	0.686 339	10 175	208	0	0.297 682	4 413	91	+2
13	−0.634 637	+13 572	+195	−1	−0.696 514	− 9 964	+211	−3	−0.302 095	−4 322	+ 91	−3
14	0.621 065	13 762	190	−4	0.706 478	9 750	214	−3	0.306 417	4 228	94	−1
15	0.607 303	13 950	188	+2	0.716 228	9 531	219	+3	0.310 645	4 134	94	−5
16	0.593 353	14 133	183	0	0.725 759	9 310	221	−1	0.314 779	4 038	96	−2
17	0.579 220	14 312	179	−1	0.735 069	9 085	225	0	0.318 817	3 940	98	+3
18	0.564 908	14 487	175	−2	0.744 154	8 857	228	0	0.322 757	3 840	100	+5
19	−0.550 421	+14 657	+170	−4	−0.753 011	− 8 625	+232	+2	−0.326 597	−3 740	+100	−2
20	0.535 764	14 823	166	−3	0.761 636	8 391	234	−3	0.330 337	3 639	101	−5
21	0.520 941	14 983	160	−5	0.770 027	8 154	237	−3	0.333 976	3 536	103	−1
22	0.505 958	15 140	157	+2	0.778 181	7 913	241	+1	0.337 512	3 431	105	+4
23	0.490 818	+15 292	152	+2	0.786 094	− 7 671	242	−2	0.340 943	−3 326	105	−1
24	−0.475 526		+145	−4	−0.793 765		+247	+4	−0.344 269		+106	−2

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0ʰ Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1938												
Nov. 24	−0.475 526	+15 437	+145	−4	−0.793 765	−7 424	+247	+4	−0.344 269	−3 220	+106	−2
25	0.460 089	15 579	142	+3	0.801 189	7 177	247	−4	0.347 489	3 112	108	+1
26	0.444 510	15 716	137	+4	0.808 366	6 927	250	−3	0.350 601	3 004	108	−2
27	0.428 794	15 847	131	−1	0.815 293	6 674	253	0	0.353 605	2 895	109	−1
28	0.412 947	15 973	126	−3	0.821 967	6 420	254	−4	0.356 500	2 784	111	+2
29	0.396 974	16 094	121	−1	0.828 387	6 164	256	−5	0.359 284	2 674	110	−2
30	−0.380 880	+16 211	+117	+2	−0.834 551	−5 906	+258	−2	−0.361 958	−2 561	+113	+4
Dez. 1	0.364 669	16 321	110	−3	0.840 457	5 646	260	+3	0.364 519	2 449	112	−2
2	0.348 348	16 428	107	+3	0.846 103	5 384	262	+5	0.366 968	2 336	113	−2
3	0.331 920	16 528	100	−1	0.851 487	5 122	262	0	0.369 304	2 222	114	0
4	0.315 392	16 625	97	+4	0.856 609	4 857	265	+4	0.371 526	2 107	115	+1
5	0.298 767	16 715	90	−1	0.861 466	4 592	265	−1	0.373 633	1 993	114	−3
6	−0.282 052	+16 802	+ 87	+5	−0.866 058	−4 326	+266	−1	−0.375 626	−1 876	+117	+4
7	0.265 250	16 884	82	+4	0.870 384	4 057	269	+4	0.377 502	1 761	115	−3
8	0.248 366	16 960	76	−3	0.874 441	3 789	268	−2	0.379 263	1 643	118	+2
9	0.231 406	17 032	72	−3	0.878 230	3 518	271	+2	0.380 906	1 527	116	−4
10	0.214 374	17 099	67	−4	0.881 748	3 246	272	0	0.382 433	1 408	119	+3
11	0.197 275	17 161	62	−2	0.884 994	2 974	272	−5	0.383 841	1 290	118	+1
12	−0.180 114	+17 219	+ 58	+2	−0.887 968	−2 699	+275	−1	−0.385 131	−1 170	+120	+4
13	0.162 895	17 271	52	−2	0.890 667	2 424	275	−4	0.386 301	1 051	119	−2
14	0.145 624	17 317	46	−4	0.893 091	2 147	277	0	0.387 352	931	120	0
15	0.128 307	17 359	42	+2	0.895 238	1 869	278	+1	0.388 283	810	121	+4
16	0.110 948	17 396	37	+4	0.897 107	1 590	279	+1	0.389 093	689	121	+4
17	0.093 552	17 425	29	−4	0.898 697	1 310	280	0	0.389 782	567	122	+4
18	−0.076 127	+17 451	+ 26	+3	−0.900 007	−1 030	+280	−3	−0.390 349	− 446	+121	−2
19	0.058 676	17 469	18	−2	0.901 037	749	281	0	0.390 795	324	122	0
20	0.041 207	17 483	14	+4	0.901 786	467	282	+4	0.391 119	202	122	+1
21	0.023 724	17 491	8	+4	0.902 253	− 185	282	+4	0.391 321	− 80	122	+2
22	−0.006 233	17 492	+ 1	0	0.902 438	+ 97	282	+2	0.391 401	+ 43	123	+4
23	+0.011 259	17 489	− 3	+5	0.902 341	379	282	0	0.391 358	165	122	−1
24	+0.028 748	+17 479	− 10	+1	−0.901 962	+ 660	+281	−2	−0.391 193	+ 286	+121	−4
25	0.046 227	17 464	15	0	0.901 302	942	282	+3	0.390 907	409	123	+2
26	0.063 691	17 443	21	−3	0.900 360	1 223	281	+2	0.390 498	530	121	−1
27	0.081 134	17 416	27	−5	0.899 137	1 504	281	+3	0.389 968	652	122	+2
28	0.098 550	17 384	32	−3	0.897 633	1 783	279	−4	0.389 316	773	121	0
29	0.115 934	17 347	37	−1	0.895 850	2 062	279	−2	0.388 543	894	121	+1
30	+0.133 281	+17 303	− 44	−5	−0.893 788	+2 340	+278	0	−0.387 649	+1 014	+120	0
31	0.150 584	+17 255	48	0	0.891 448	+2 617	277	+1	0.386 635	+1 135	121	+4
32	+0.167 839		− 54	0	−0.888 831		+276	+2	−0.385 500		+119	−1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

Mittleres Äquinoktium 1950.0

MERKUR 1938

0h Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite	0h Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite
1938		°	°	°	1938		°	°	°
Jan. −3	9.4887	84.91	+0.21	+4.24	Juli 1	9.5288	138.44	−0.01	+7.00
+2	9.5048	115.66	+0.15	+6.49	6	9.5630	162.93	−0.17	+6.34
7	9.5350	143.34	−0.04	+6.97	11	9.5958	183.78	−0.21	+4.88
12	9.5695	167.10	−0.18	+6.11	16	9.6235	201.81	−0.17	+3.08
17	9.6015	187.36	−0.21	+4.55	21	9.6448	217.86	−0.07	+1.21
22	9.6280	204.96	−0.15	+2.72	26	9.6594	232.61	+0.04	−0.60
27	9.6481	220.71	−0.05	+0.86	31	9.6674	246.62	+0.13	−2.28
Febr. 1	9.6614	235.28	+0.06	−0.92	Aug. 5	9.6688	260.36	+0.19	−3.79
6	9.6681	249.20	+0.15	−2.57	10	9.6637	274.26	+0.21	−5.09
11	9.6683	262.94	+0.20	−4.05	15	9.6520	288.76	+0.18	−6.13
16	9.6620	276.92	+0.21	−5.31	20	9.6336	304.36	+0.10	−6.82
21	9.6491	291.59	+0.17	−6.29	25	9.6086	321.62	−0.03	−6.99
26	9.6294	307.45	+0.08	−6.89	30	9.5778	341.26	−0.16	−6.43
März 3	9.6033	325.11	−0.05	−6.95	Sept. 4	9.5435	4.03	−0.21	−4.85
8	9.5715	345.28	−0.18	−6.22	9	9.5114	30.47	−0.12	−2.09
13	9.5371	8.71	−0.21	−4.43	14	9.4908	60.31	+0.09	+1.53
18	9.5063	35.85	−0.09	−1.45	19	9.4905	91.78	+0.21	+4.88
23	9.4891	66.18	+0.13	+2.22	24	9.5106	122.02	+0.11	+6.74
28	9.4929	97.64	+0.21	+5.37	29	9.5425	148.87	−0.08	+6.87
April 2	9.5160	127.36	+0.08	+6.89	Okt. 4	9.5768	171.80	−0.20	+5.81
7	9.5490	153.46	−0.11	+6.75	9	9.6078	191.40	−0.20	+4.17
12	9.5830	175.71	−0.21	+5.53	14	9.6330	208.53	−0.13	+2.32
17	9.6130	194.78	−0.20	+3.83	19	9.6515	223.97	−0.03	+0.46
22	9.6370	211.53	−0.12	+1.96	24	9.6634	238.36	+0.08	−1.30
27	9.6543	226.73	−0.01	+0.12	29	9.6687	252.20	+0.16	−2.91
Mai 2	9.6649	240.98	+0.10	−1.61	Nov. 3	9.6675	265.96	+0.21	−4.35
7	9.6690	254.78	+0.17	−3.20	8	9.6597	280.05	+0.21	−5.55
12	9.6665	268.57	+0.21	−4.59	13	9.6453	294.93	+0.15	−6.46
17	9.6575	282.77	+0.20	−5.75	18	9.6243	311.13	+0.05	−6.96
22	9.6419	297.86	+0.14	−6.59	23	9.5967	329.27	−0.08	−6.86
27	9.6196	314.37	+0.03	−6.99	28	9.5641	350.09	−0.19	−5.93
Juni 1	9.5909	332.96	−0.11	−6.76	Dez. 3	9.5297	14.31	−0.20	−3.87
6	9.5576	354.36	−0.21	−5.63	8	9.5010	42.24	−0.04	−0.68
11	9.5236	19.28	−0.18	−3.35	13	9.4880	73.05	+0.17	+3.01
16	9.4971	47.86	0.00	+0.01	18	9.4965	104.37	+0.20	+5.86
21	9.4879	78.98	+0.19	+3.65	23	9.5227	133.40	+0.03	+6.98
26	9.5004	110.07	+0.18	+6.21	28	9.5565	158.63	−0.14	+6.55
Juli 1	9.5288	138.44	−0.01	+7.00					

$\Omega = 47.^\circ 739 \qquad i = 7.^\circ 004 \qquad m = \frac{1}{6\,000\,000}$

Mittleres Äquinoktium 1950.0

0^h Welt-Zeit		Julian. Zeit	log r	Helioz. Länge	Red. auf d. Bahn	Heliozentr. Breite	log R	Länge
			VENUS 1938				ERDE 1938	
1938		d		°	° in 0.001	°		°
Jan.	−8	242 8890.5	9.86061	246.542	−17	+0.574	9.99280	90.919
	+2	8900.5	9.86129	262.416	+11	−0.364	9.99267	101.110
	12	8910.5	9.86183	278.248	+35	−1.272	9.99276	111.302
	22	8920.5	9.86217	294.059	+49	−2.082	9.99307	121.484
Febr.	1	8930.5	9.86230	309.867	+48	−2.733	9.99360	131.647
	11	242 8940.5	9.86220	325.688	+33	−3.178	9.99432	141.780
	21	8950.5	9.86188	341.534	+ 8	−3.383	9.99521	151.876
März	3	8960.5	9.86137	357.413	−19	−3.330	9.99624	161.927
	13	8970.5	9.86070	13.330	−41	−3.023	9.99738	171.928
	23	8980.5	9.85992	29.288	−50	−2.483	9.99860	181.874
April	2	242 8990.5	9.85909	45.291	−44	−1.748	9.99984	191.764
	12	9000.5	9.85828	61.341	−25	−0.875	0.00109	201.598
	22	9010.5	9.85755	77.440	+ 2	+0.070	0.00229	211.376
Mai	2	9020.5	9.85696	93.590	+29	+1.012	0.00343	221.101
	12	9030.5	9.85655	109.787	+46	+1.876	0.00445	230.778
	22	242 9040.5	9.85636	126.020	+50	+2.592	0.00535	240.413
Juni	1	9050.5	9.85641	142.274	+37	+3.102	0.00608	250.011
	11	9060.5	9.85669	158.527	+13	+3.363	0.00665	259.580
	21	9070.5	9.85718	174.756	−15	+3.357	0.00702	269.128
Juli	1	9080.5	9.85783	190.937	−38	+3.085	0.00720	278.665
	11	242 9090.5	9.85860	207.053	−50	+2.571	0.00716	288.198
	21	9100.5	9.85942	223.094	−46	+1.859	0.00693	297.738
	31	9110.5	9.86024	239.061	−28	+1.005	0.00650	307.292
Aug.	10	9120.5	9.86098	254.961	− 2	+0.077	0.00588	316.869
	20	9130.5	9.86159	270.811	+25	−0.854	0.00510	326.477
	30	242 9140.5	9.86203	286.630	+44	−1.718	0.00416	336.123
Sept.	9	9150.5	9.86226	302.437	+50	−2.450	0.00310	345.814
	19	9160.5	9.86227	318.250	+42	−2.997	0.00195	355.555
	29	9170.5	9.86205	334.084	+21	−3.318	0.00073	5.349
Okt.	9	9180.5	9.86163	349.947	− 7	−3.387	9.99949	15.199
	19	242 9190.5	9.86103	5.846	−32	−3.198	9.99825	25.105
	29	9200.5	9.86030	21.785	−48	−2.764	9.99706	35.067
Nov.	8	9210.5	9.85949	37.766	−49	−2.114	9.99594	45.082
	18	9220.5	9.85867	53.793	−35	−1.298	9.99495	55.146
	28	9230.5	9.85789	69.869	−11	−0.378	9.99411	65.253
Dez.	8	242 9240.5	9.85723	85.994	+17	+0.575	9.99344	75.395
	18	9250.5	9.85674	102.168	+40	+1.485	9.99297	85.564
	28	9260.5	9.85645	118.384	+50	+2.278	9.99271	95.750
	38	242 9270.5	9.85639	134.629	+45	+2.891	9.99268	105.942

Venus: $\Omega = 76\overset{\circ}{.}230$ $i = 3\overset{\circ}{.}394$ $m = \frac{1}{408\,000}$

Erde: $m = \frac{1}{329\,390}$

Mittleres Äquinoktium 1950.0

0^h Welt-Zeit		log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite
		MARS 1938				JUPITER 1938			
1938			°	° in 0.001	°		°	° in 0.0001	°
Jan.	−8	0.14659	8.653	−15	−1.204	0.707517	306.3042	+59	−0.5812
	+2	0.14900	14.786	14	1.047	0.707226	307.1685	61	0.5988
	12	0.15172	20.846	12	0.880	0.706937	308.0340	62	0.6163
	22	0.15472	26.826	11	0.705	0.706650	308.9007	63	0.6336
Febr.	1	0.15795	32.720	8	0.525	0.706364	309.7685	64	0.6509
	11	0.16137	38.524	− 5	−0.343	0.706080	310.6375	+65	−0.6680
	21	0.16494	44.236	− 3	−0.160	0.705798	311.5076	66	0.6850
März	3	0.16861	49.853	0	+0.021	0.705518	312.3788	67	0.7019
	13	0.17235	55.374	+ 3	0.199	0.705240	313.2511	68	0.7186
	23	0.17612	60.802	6	0.372	0.704965	314.1246	69	0.7352
April	2	0.17988	66.136	+ 8	+0.539	0.704691	314.9992	+70	−0.7516
	12	0.18360	71.379	10	0.699	0.704420	315.8749	71	0.7679
	22	0.18726	76.534	12	0.850	0.704151	316.7517	71	0.7840
Mai	2	0.19081	81.604	14	0.992	0.703884	317.6296	72	0.7999
	12	0.19425	86.594	14	1.124	0.703620	318.5085	73	0.8157
	22	0.19755	91.508	+15	+1.246	0.703358	319.3886	+73	−0.8313
Juni	1	0.20069	96.349	15	1.357	0.703099	320.2697	73	0.8467
	11	0.20365	101.124	15	1.457	0.702842	321.1518	74	0.8619
	21	0.20642	105.836	14	1.546	0.702589	322.0350	74	0.8770
Juli	1	0.20898	110.491	13	1.623	0.702338	322.9192	74	0.8919
	11	0.21133	115.094	+11	+1.689	0.702090	323.8045	+74	−0.9065
	21	0.21346	119.650	9	1.744	0.701844	324.6908	74	0.9210
	31	0.21535	124.165	7	1.788	0.701602	325.5781	74	0.9353
Aug.	10	0.21700	128.643	5	1.820	0.701363	326.4664	74	0.9493
	20	0.21840	133.089	3	1.840	0.701127	327.3556	74	0.9632
	30	0.21956	137.510	+ 1	+1.850	0.700895	328.2458	+74	−0.9768
Sept.	9	0.22047	141.910	− 1	1.849	0.700665	329.1370	74	0.9902
	19	0.22112	146.294	4	1.837	0.700439	330.0291	73	1.0034
	29	0.22151	150.667	6	1.814	0.700217	330.9222	73	1.0163
Okt.	9	0.22164	155.035	8	1.781	0.699997	331.8162	72	1.0290
	19	0.22151	159.402	−10	+1.737	0.699782	332.7111	+72	−1.0415
	29	0.22113	163.775	11	1.683	0.699570	333.6068	71	1.0537
Nov.	8	0.22049	168.158	13	1.620	0.699361	334.5035	70	1.0657
	18	0.21959	172.556	14	1.546	0.699156	335.4010	70	1.0774
	28	0.21843	176.974	14	1.463	0.698955	336.2993	69	1.0889
Dez.	8	0.21703	181.419	−15	+1.371	0.698758	337.1985	+68	−1.1002
	18	0.21539	185.894	15	1.270	0.698565	338.0985	67	1.1111
	28	0.21350	190.405	15	1.160	0.698376	338.9993	66	1.1218
	38	0.21138	194.958	−14	+1.042	0.698190	339.9009	+65	−1.1323

Mars: $\Omega = 49\overset{\circ}{.}172$ $i = 1\overset{\circ}{.}850$ $m = \frac{1}{3\,093\,500}$

Jupiter: $\Omega = 99\overset{\circ}{.}9528$ $i = 1\overset{\circ}{.}3059$ $m = \frac{1}{1\,047.35}$

Mittleres Äquinoktium 1950.0

SATURN 1938

0h Welt-Zeit			Julian. Zeit	log r	Heliozentrische Länge	Red. auf die Bahn	Heliozentrische Breite
			d		°	in 0.0001°	°
1937	Dez.	13	242 8880.5	0.977475	4.5251	+164	−2.3554
1938	Jan.	22	8920.5	0.976940	5.8792	154	2.3736
	März	3	8960.5	0.976405	7.2367	143	2.3905
	April	12	9000.5	0.975870	8.5976	+132	−2.4061
	Mai	22	9040.5	0.975336	9.9620	121	2.4204
	Juli	1	9080.5	0.974804	11.3298	109	2.4333
	Aug.	10	9120.5	0.974272	12.7011	+ 97	−2.4449
	Sept.	19	9160.5	0.973743	14.0758	85	2.4551
	Okt.	29	9200.5	0.973215	15.4539	73	2.4639
	Dez.	8	242 9240.5	0.972690	16.8355	+ 60	−2.4713

$\Omega = 113.2251°$ $i = 2.4903°$ $m = \frac{1}{3\,501.6}$

URANUS 1938

0h Welt-Zeit			Julian. Zeit	log r	Heliozentrische Länge	Red. auf die Bahn	Heliozentrische Breite
			d		°	in 0.001°	°
1937	Dez.	13	242 8880.5	1.29495	42.269	− 2	−0.405
1938	Jan.	22	8920.5	1.29482	42.713	2	0.399
	März	3	8960.5	1.29470	43.158	2	0.394
	April	12	9000.5	1.29457	43.603	− 2	−0.389
	Mai	22	9040.5	1.29445	44.048	2	0.384
	Juli	1	9080.5	1.29432	44.493	2	0.379
	Aug.	10	9120.5	1.29420	44.939	− 2	−0.373
	Sept.	19	9160.5	1.29407	45.385	2	0.368
	Okt.	29	9200.5	1.29394	45.831	2	0.363
	Dez.	8	242 9240.5	1.29381	46.278	− 2	−0.358

$\Omega = 73.745°$ $i = 0.773°$ $m = \frac{1}{22\,869}$

NEPTUN 1938

0h Welt-Zeit			Julian. Zeit	log r	Heliozentrische Länge	Red. auf die Bahn	Heliozentrische Breite
			d		°	in 0.001°	°
1937	Dez.	13	242 8880.5	1.48015	169.420	+ 13	+1.097
1938	Jan.	22	8920.5	1.48016	169.656	13	1.103
	März	3	8960.5	1.48017	169.892	13	1.109
	April	12	9000.5	1.48018	170.129	+ 13	+1.114
	Mai	22	9040.5	1.48019	170.365	13	1.120
	Juli	1	9080.5	1.48020	170.601	13	1.126
	Aug.	10	9120.5	1.48021	170.838	+ 13	+1.131
	Sept.	19	9160.5	1.48022	171.074	14	1.137
	Okt.	29	9200.5	1.48023	171.310	14	1.143
	Dez.	8	242 9240.5	1.48025	171.546	+ 14	+1.148

$\Omega = 131.230°$ $i = 1.775°$ $m = \frac{1}{19\,314}$

PLUTO 1938

0h Welt-Zeit			Julian. Zeit	log r	Heliozentrische Länge	Red. auf die Bahn	Heliozentrische Breite
			d		°	in 0.001°	°
1937	Nov.	3	242 8840.5	1.59572	118.871	+421	+2.836
1938	Jan.	22	8920.5	1.59512	119.166	434	2.926
	April	12	9000.5	1.59452	119.463	447	3.016
	Juli	1	9080.5	1.59392	119.760	460	3.106
	Sept.	19	9160.5	1.59331	120.058	473	3.197
	Dez.	8	242 9240.5	1.59271	120.357	+486	+3.287

$\Omega = 109.633°$ $i = 17.144°$ $m \approx \frac{1}{3\,300\,000}$

Mittlere und Scheinbare Sternörter 1938

Reduktionsgrößen

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.″001
		m		h m s	s		° ′ ″	″	
905	[2 Ceti]	4.62	A 0	0 0 33.882	+3.0731	+ 12	−17 40 52.03	+20.040	− 4
1	α Androm.	2.15	A 0 p	0 5 10.693	+3.1003	+ 107	+28 44 53.44	+19.878	− 161
2	β Cassiopeiae	2.42	F 5	0 5 51.389	+3.1972	+ 678	+58 48 28.16	+19.857	− 180
3	ε Phoenicis	3.94	K 0	0 6 16.085	+3.0450	+ 99	−46 5 23.03	+19.844	− 192
4	[22 Androm.]	5.08	F 0	0 7 5.405	+3.1162	+ 8	+45 43 37.97	+20.031	− 3
5	[κ² Sculptoris]	5.56	K 0	0 8 25.680	+3.0471	+ 4	−28 8 43.13	+20.036	+ 6
6	[ϑ Sculptoris]	5.19	F 5	0 8 34.943	+3.0477	+ 104	−35 28 48.76	+20.153	+ 124
7	γ Pegasi	2.87	B 2	0 10 2.413	+3.0886	+ 1	+14 50 19.83	+20.011	− 14
8	[Br 6]	6.23	B 9	0 12 40.943	+3.3901	+ 68	+76 36 22.98	+20.015	+ 1
9	ι Ceti	3.75	K 0	0 16 16.131	+3.0563	− 15	− 9 10 3.22	+19.961	− 32
10	ζ Tucanae	4.34	F 8	0 16 51.092	+3.1293	+2691	−65 14 21.42	+21.144	+1154
11	β Hydri	2.90	G 0	0 22 31.484	+3.1681	+6916	−77 36 12.30	+20.265	+ 318
12	α Phoenicis	2.44	K 0	0 23 13.330	+2.9653	+ 168	−42 38 34.31	+19.532	− 409
13	12 Ceti	6.04	K 5	0 26 52.481	+3.0620	+ 8	− 4 17 59.07	+19.898	− 8
14	[Ceti 49 G.]	5.23	A 3	0 27 16.751	+2.9994	− 25	−24 7 50.37	+19.911	+ 9
15	[λ¹ Phoenicis]	4.88	A 2	0 28 25.726	+2.8941	+ 122	−49 8 47.12	+19.902	+ 12
16	[κ Cassiopeiae]	4.24	B 0	0 29 27.566	+3.4045	+ 11	+62 35 23.58	+19.881	+ 3
17	ζ Cassiopeiae	3.72	B 3	0 33 30.313	+3.3390	+ 23	+53 33 21.40	+19.823	− 7
18	π Androm.	4.44	B 3	0 33 33.817	+3.2032	+ 17	+33 22 41.89	+19.829	0
19	[ε Androm.]	4.52	G 5	0 35 16.440	+3.1691	− 173	+28 58 31.31	+19.556	− 251
20	δ Androm.	3.49	K 2	0 36 0.411	+3.2069	+ 106	+30 31 19.37	+19.713	− 84
21	α Cassiopeiae	2.47	K 0	0 36 58.505	+3.3996	+ 60	+56 11 51.39	+19.754	− 29
22	β Ceti	2.24	K 0	0 40 28.679	+3.0113	+ 160	−18 19 35.96	+19.770	+ 39
23	[η Phoenicis]	4.53	A 0	0 40 34.519	+2.6998	+ 5	−57 48 11.68	+19.722	− 8
26	[λ² Sculptoris]	5.97	K 0	0 41 12.269	+2.8989	+ 178	−38 45 47.42	+19.835	+ 114
25	o Cassiopeiae	4.70	B 2	0 41 15.621	+3.3404	+ 22	+47 56 43.11	+19.712	− 8
24	21 Cassiopeiae	5.59	A 2	0 41 30.921	+3.9442	− 58	+74 38 58.20	+19.693	− 23
27	ζ Androm.	4.30	K 0	0 44 2.845	+3.1788	− 75	+23 55 48.72	+19.596	− 79
28	[δ Piscium]	4.55	K 5	0 45 27.784	+3.1117	+ 52	+ 7 14 52.64	+19.605	− 46
31	[λ Hydri]	4.96	K 5	0 46 27.056	+2.0902	+ 396	−75 15 38.66	+19.607	− 27
29	[Br 82]	5.45	F 2 + A 2	0 46 56.776	+3.6340	+ 59	+63 54 37.58	+19.620	− 5
30	[19 Ceti]	5.24	F 5	0 47 1.257	+3.0043	− 159	−10 58 40.47	+19.401	− 223
34	[λ² Tucanae]	5.34	K 0	0 52 41.425	+2.2393	− 33	−69 51 43.88	+19.471	− 45
32	γ Cassiopeiae	2.25	B 0 p	0 52 56.967	+3.6149	+ 37	+60 22 53.05	+19.507	− 4
33	μ Androm.	3.94	A 2	0 53 18.257	+3.3280	+ 129	+38 9 48.50	+19.540	+ 36
35	α Sculptoris	4.39	B 5	0 55 37.115	+2.8895	− 5	−29 41 32.67	+19.451	− 5
36	ε Piscium	4.45	K 0	0 59 43.375	+3.1132	− 55	+ 7 33 24.45	+19.397	+ 30
37	[26 Ceti]	6.07	F 0	1 0 37.487	+3.0874	+ 81	+ 1 2 5.50	+19.307	− 39
38	β Phoenicis	3.35	K 0	1 3 19.070	+2.6759	− 56	−47 3 2.50	+19.268	− 15
39	[ι Tucanae]	5.32	K 0	1 4 51.577	+2.3781	+ 100	−62 6 21.87	+19.242	− 4

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ′ ″	″	
40	[η Ceti]	3.60	K o	1 5 28.180	+3.0169	+ 137	−10 30 37.76	+19.100	− 132
42	β Androm.	2.37	M a	1 6 15.222	+3.3578	+ 151	+35 17 32.45	+19.099	− 113
41	[44 H. Cephei]	5.68	A o	1 6 50.334	+5.1486	+ 335	+79 20 41.35	+19.206	+ 9
43	[τ Piscium]	4.70	K o	1 8 14.382	+3.3027	+ 56	+29 45 38.99	+19.120	− 41
44	[Sculpt. 102 G.]	5.91	A 5	1 9 53.983	+2.7613	+ 39	−38 11 4.80	+19.091	− 27
45	υ Piscium	4.67	A 2	1 16 3.163	+3.2957	+ 15	+26 56 19.31	+18.939	− 11
47	ϑ Ceti	3.83	K o	1 20 55.414	+2.9984	− 55	− 8 30 9.99	+18.593	− 214
46	[ψ Cassiop.]	4.96	K o	1 21 31.486	+4.2273	+ 135	+67 48 26.00	+18.821	+ 32
48	δ Cassiopeiae	2.80	A 5	1 21 44.493	+3.9182	+ 399	+59 54 49.68	+18.739	− 43
49	[γ Phoenicis]	3.40	K 5	1 25 40.383	+2.6040	− 38	−43 38 8.17	+18.442	− 218
50	η Piscium	3.72	G 5	1 28 9.695	+3.2092	+ 15	+15 1 36.17	+18.572	− 7
53	[Hydri 14 G.]	6.06	G 5	1 33 13.220	+0.3914	− 71	−78 49 9.99	+18.281	− 128
51	40 Cassiopeiae	5.50	K o	1 33 31.105	+4.7761	− 20	+72 43 30.23	+18.392	− 6
52	υ Persei	3.77	K o	1 34 10.488	+3.6788	+ 64	+48 18 53.28	+18.262	− 113
54	α Eridani	0.60	B 5	1 35 24.494	+2.2353	+ 121	−57 33 4.95	+18.294	− 38
55	43 Cassiopeiae	5.54	A o p	1 37 43.138	+4.4314	+ 88	+67 43 49.58	+18.248	− 2
56	[ν Piscium]	4.68	K o	1 38 12.139	+3.1217	− 16	+ 5 10 27.98	+18.233	+ 2
58	[Sculpt. 129 G.]	5.64	A o	1 39 18.931	+2.6422	− 57	−37 8 40.66	+18.168	− 23
57	φ Persei	4.19	B o p	1 39 45.694	+3.7562	+ 26	+50 22 37.81	+18.160	− 15
59	τ Ceti	3.65	K o	1 41 11.248	+2.7871	−1194	−16 15 48.56	+18.975	+ 853
60	o Piscium	4.50	K o	1 42 6.991	+3.1673	+ 47	+ 8 50 46.86	+18.137	+ 50
61	Lac. ε Sculpt.	5.39	F o	1 42 44.462	+2.8084	+ 99	−25 21 44.10	+17.988	− 75
62	ζ Ceti	3.92	K o	1 48 23.937	+2.9609	+ 22	−10 38 26.48	+17.809	− 34
64	α Trianguli	3.58	F 5	1 49 32.464	+3.4188	+ 11	+29 16 39.28	+17.565	− 233
63	ε Cassiopeiae	3.44	B 3	1 49 54.682	+4.3074	+ 50	+63 21 56.86	+17.768	− 15
65	ξ Piscium	4.84	K o	1 50 20.609	+3.1055	+ 13	+ 2 52 55.38	+17.784	+ 19
67	ψ Phoenicis	4.41	M b	1 51 9.672	+2.4046	− 94	−46 36 21.78	+17.631	− 101
66	β Arietis	2.72	A 5	1 51 12.587	+3.3127	+ 65	+20 30 20.62	+17.621	− 109
69	[η² Hydri]	4.72	K o	1 53 21.647	+1.5187	+ 119	−67 57 6.86	+17.721	+ 79
68	χ Eridani	3.73	G 5	1 53 32.679	+2.3335	+ 711	−51 55 2.57	+17.903	+ 270
72	α Hydri	3.02	F o	1 56 48.925	+1.8895	+ 360	−61 52 16.40	+17.517	+ 21
71	υ Ceti	4.18	M a	1 57 5.010	+2.8264	+ 91	−21 22 39.05	+17.470	− 14
70	50 Cassiopeiae	4.06	A 2	1 58 5.810	+5.1054	− 91	+72 7 21.18	+17.466	+ 25
73	γ Androm.	2.28 5.08	K o A o	2 0 5.036	+3.6800	+ 43	+42 1 59.01	+17.301	− 54
74	α Arietis	2.23	K 2	2 3 40.361	+3.3806	+ 137	+23 10 12.66	+17.052	− 143
75	β Trianguli	3.08	A 5	2 5 50.797	+3.5681	+ 122	+34 41 41.82	+17.057	− 40
77	[6 Persei]	5.40	K o	2 9 28.124	+3.9863	+ 368	+50 46 43.81	+16.760	− 169
76	55 Cassiopeiae	6.15	F 5 + A 2	2 9 35.346	+4.6979	− 10	+66 14 6.60	+16.927	+ 3
78	Lac. μ Forn.	5.24	A o	2 10 10.698	+2.6422	+ 13	−31 0 50.69	+16.898	+ 2
79	[γ Trianguli]	4.07	A o	2 13 37.264	+3.5648	+ 37	+33 33 41.51	+16.688	− 44

Mittlere Sternörter 1938.0

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.″001
		m		h m s	s		° ′ ″	″	
80	67 Ceti	5.70	G 5	2 13 53.355	+2.9918	+ 55	− 6 42 25.59	+16.610	− 110
82	[φ Eridani]	3.78	B 8	2 14 17.609	+2.1422	+ 81	−51 47 55.67	+16.664	− 36
81	[ϑ Arietis]	5.69	A 0	2 14 40.329	+3.3361	− 10	+19 36 54.82	+16.680	− 2
83	[ϰ Fornacis]	5.37	F 5	2 19 42.323	+2.7450	+ 142	−24 5 50.65	+16.371	− 63
84	[λ Horologii]	5.47	F 2	2 23 9.836	+1.6773	− 95	−60 35 20.68	+16.121	− 137
86	[ϰ Eridani]	4.44	B 5	2 24 42.654	+2.1974	− 2	−47 58 54.26	+16.156	− 23
85	ξ² Ceti	4.34	A 0	2 24 51.566	+3.1891	+ 26	+ 8 10 59.19	+16.167	− 4
88	[λ¹ Fornacis]	5.88	K 0	2 30 31.770	+2.4991	− 43	−34 55 19.83	+15.841	− 32
87	36 H. Cassiop.	5.34	K 0	2 32 5.512	+5.6854	− 60	+72 32 56.00	+15.811	+ 21
90	μ Hydri	5.29	K 0	2 32 56.293	−1.2905	+ 468	−79 22 48.21	+15.711	− 34
89	ν Arietis	5.36	A 2	2 35 17.432	+3.4054	− 9	+21 41 39.72	+15.600	− 16
91	δ Ceti	4.04	B 2	2 36 18.132	+3.0746	+ 7	+ 0 3 43.17	+15.558	− 2
95	[ε Hydri]	4.26	B 9	2 38 37.738	+0.9214	+ 168	−68 31 56.39	+15.436	+ 5
92	[Br 366]	5.84	A 2	2 39 27.654	+5.1498	+ 25	+67 33 46.38	+15.356	− 29
94	[35 Arietis]	4.58	B 3	2 39 48.442	+3.5191	+ 4	+27 26 40.16	+15.358	− 7
93	ϑ Persei	4.22	F 8	2 39 57.187	+4.0944	+ 346	+48 58 2.97	+15.268	− 89
96	[γ Ceti]	3.58	A 2	2 40 5.115	+3.1079	− 98	+ 2 58 31.76	+15.202	− 148
97	π Ceti	4.39	B 5	2 41 10.244	+2.8548	− 8	−14 7 13.15	+15.279	− 9
98	μ Ceti	4.36	F 0	2 41 35.218	+3.2423	+ 189	+ 9 51 12.25	+15.233	− 31
99	[η Persei]	3.93	K 0	2 46 9.520	+4.3719	+ 28	+55 38 22.72	+14.992	− 11
100	41 Arietis	3.68	B 8	2 46 19.712	+3.5301	+ 51	+27 0 22.15	+14.880	− 113
101	β Fornacis	4.50	K 0	2 46 29.699	+2.5103	+ 63	−32 39 55.79	+15.142	+ 159
102	τ² Eridani	4.81	K 0	2 48 13.532	+2.7209	− 39	−21 15 32.05	+14.853	− 29
103	τ Persei	4.06	G 0 + A 5	2 49 50.888	+4.2494	+ 3	+52 30 36.71	+14.785	− 2
104	η Eridani	4.05	K 0	2 53 23.825	+2.9306	+ 52	− 9 8 38.21	+14.357	− 218
106	ϑ Eridani	3.42 4.42	A 2	2 55 54.471	+2.2724	− 67	−40 33 8.10	+14.452	+ 28
105	47 H. Cephei	5.66	M a	2 57 45.556	+7.9553	− 113	+79 10 35.73	+14.332	+ 22
107	α Ceti	2.82	M a	2 59 2.133	+3.1354	− 9	+ 3 50 51.23	+14.156	− 76
108	γ Persei	3.08	F 5 + A 3	3 0 17.518	+4.3409	+ 2	+53 15 54.56	+14.151	− 4
109	*ρ Persei	var.	M b	3 1 11.726	+3.8427	+ 114	+38 36 5.10	+13.995	− 104
113	[ϑ Hydri]	5.52	B 8	3 2 6.746	+0.1181	+ 51	−72 8 40.07	+14.064	+ 22
110	μ Horologii	5.16	F 0	3 2 8.866	+1.4110	− 117	−59 58 40.15	+13.972	− 68
111	*β Persei	var.	B 8	3 4 7.577	+3.9015	+ 7	+40 43 5.48	+13.914	− 1
112	[ι Persei]	4.17	G 0	3 4 34.830	+4.3261	+1297	+49 22 40.64	+13.802	− 85
114	δ Arietis	4.53	K 0	3 8 4.751	+3.4297	+ 106	+19 29 36.65	+13.661	− 4
117	12 Eridani	3.95	F 8	3 9 26.133	+2.5471	+ 241	−29 13 50.10	+14.221	+ 644
116	[94 Ceti]	5.14	F 8	3 9 36.508	+3.0622	+ 136	− 1 25 36.75	+13.505	− 62
118	[Horol. 38 G.]	5.72	N a	3 10 58.627	+1.5169	− 5	−57 33 12.32	+13.472	− 6
115	48 H. Cephei	5.50	F 0	3 12 22.618	+7.5809	+ 183	+77 30 35.91	+13.343	− 44
119	[e Eridani]	4.30	G 5	3 17 27.125	+2.3957	+2785	−43 18 22.56	+13.782	+ 729

Nr. 109. Größe: Max. 3.3, Min. 4.1. Nr. 111. Größe: Max. 2.3, Min. 3.5.

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		m		h m s			° ' "	"	
120	α Persei	1.90	F 5	3 19 53.099	+4.2800	+ 29	+49 38 31.59	+12.866	− 26
121	o Tauri	3.80	G 5	3 21 28.431	+3.2282	− 44	+ 8 48 42.76	+12.709	− 76
123	[ξ Tauri]	3.75	B 8	3 23 48.350	+3.2509	+ 39	+ 9 31 3.41	+12.582	− 45
122	2 H. Camelop.	4.42	B 9 p	3 24 1.840	+4.8522	− 1	+59 43 34.53	+12.618	+ 6
124	[σ Persei]	4.55	K 0	3 26 11.600	+4.2274	+ 9	+47 46 58.33	+12.488	+ 23
125	f Tauri	4.28	K 0	3 27 26.795	+3.3117	+ 13	+12 43 31.40	+12.373	− 5
126	[κ Reticuli]	4.80	F 5	3 28 17.153	+1.0419	+ 514	−63 9 21.15	+12.681	+ 360
127	ε Eridani	3.81	K 0	3 30 0.501	+2.8267	− 657	− 9 40 1.68	+12.215	+ 14
128	[Horol. 45 G.]	5.60	K 0	3 30 43.501	+1.7847	+ 48	−50 35 18.02	+12.232	+ 80
130	[y Eridani]	4.58	K 0	3 34 52.105	+2.1522	− 16	−40 28 37.72	+11.837	− 24
129	[Grb 716]	5.32	Ma	3 36 45.302	+5.1994	− 21	+63 1 4.49	+11.751	+ 22
131	δ Persei	3.10	B 5	3 38 30.056	+4.2692	+ 33	+47 35 27.61	+11.569	− 35
133	[δ Fornacis]	4.93	B 5	3 39 46.875	+2.3855	− 5	−32 8 8.22	+11.520	+ 7
135	[δ Eridani]	3.72	K 0	3 40 16.604	+2.8741	− 64	− 9 58 19.55	+12.224	+ 747
132	[o Persei]	3.94	B 1	3 40 25.506	+3.7612	+ 8	+32 5 35.72	+11.449	− 17
134	ν Persei	3.93	F 5	3 40 58.447	+4.0743	− 6	+42 23 3.46	+11.422	− 5
136	[17 Tauri]	3.81	B 5 p	3 41 11.365	+3.5620	+ 17	+23 55 11.52	+11.368	− 44
137	[24 Eridani]	5.09	B 8	3 41 21.441	+3.0471	+ 1	− 1 21 27.02	+11.391	− 8
141	β Reticuli	3.80	K 0	3 43 24.902	+0.7489	+ 477	−65 0 7.14	+11.311	+ 61
138	5 H. Camelop.	4.67	A 0	3 43 46.706	+6.3188	+ 42	+71 8 37.75	+11.185	− 40
139	η Tauri	2.96	B 5 p	3 43 47.685	+3.5657	+ 17	+23 54 53.38	+11.176	− 48
140	τ^6 Eridani	4.33	F 8	3 44 10.743	+2.5803	− 124	−23 25 54.12	+10.676	− 519
142	[27 Tauri]	3.80	B 8	3 45 28.269	+3.5666	+ 14	+23 51 55.05	+11.057	− 45
143	g Eridani	4.24	K 0	3 47 8.018	+2.2453	− 40	−36 23 13.67	+10.928	− 52
146	γ Hydri	3.17	Ma	3 48 10.658	−0.9383	+ 124	−74 25 46.35	+11.013	+ 109
144	ζ Persei	2.91	B 1	3 50 13.779	+3.7707	+ 11	+31 42 3.82	+10.741	− 11
145	*9 H. Camelop.	5.22	K 0 + A 0	3 51 50.040	+5.1103	− 3	+60 55 45.49	+10.618	− 16
147	ε Persei	2.96	B 1	3 53 41.199	+4.0249	+ 23	+39 49 56.92	+10.467	− 29
148	ξ Persei	4.05	Oe 5	3 54 56.201	+3.8922	+ 10	+35 36 51.37	+10.394	− 8
149	γ Eridani	3.19	K 5	3 55 8.130	+2.7990	+ 42	−13 41 1.63	+10.276	− 112
150	*λ Tauri	var.	B 3	3 57 14.532	+3.3235	− 5	+12 18 59.49	+10.217	− 13
151	ν Tauri	3.94	A 0	3 59 51.357	+3.1914	+ 4	+ 5 49 6.65	+10.023	− 10
153	[Erid. 174 G.]	5.57	A 5	4 3 4.048	+2.4725	+ 148	−27 49 13.16	+ 9.896	+ 107
152	c Persei	4.03	B 3 p	4 4 9.162	+4.3544	+ 33	+47 32 55.67	+ 9.673	− 32
154	o^1 Eridani	4.14	F 2	4 8 50.267	+2.9287	+ 8	− 6 59 52.87	+ 9.427	+ 82
155	α Horologii	3.83	K 0	4 11 56.667	+1.9862	+ 20	−42 26 47.67	+ 8.885	− 219
156	α Reticuli	3.36	G 5	4 13 37.221	+0.7701	+ 50	−62 37 43.17	+ 9.020	+ 47
157	[γ Doradus]	4.36	F 5	4 14 23.893	+1.5695	+ 89	−51 38 33.10	+ 9.084	+ 171
160	υ^4 Eridani	3.59	B 9	4 15 32.757	+2.2690	+ 37	−33 56 55.83	+ 8.810	− 12
159	[γ Tauri]	3.86	K 0	4 16 15.730	+3.4140	+ 82	+15 28 45.54	+ 8.737	− 29

Nr. 145. Doppelstern, Größe der Komponenten: 5.0 und 8.2. Nr. 150. Größe: Max. 3.3, Min. 4.2.

Mittlere Sternörter 1938.0

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0"001
		m		h m s	s		° ′ ″	″	
158	[54 Persei]	5.10	G 5	4 16 22.778	+3.8947	− 20	+34 25 7.52	+8.751	− 6
161	[Erid. 212 G.]	5.31	A 0	4 17 56.780	+2.6189	+ 36	−20 47 9.78	+8.649	+ 15
162	δ Tauri	3.93	K 0	4 19 21.386	+3.4598	+ 78	+17 23 54.91	+8.491	− 31
163	[η Reticuli]	5.18	K 0	4 21 12.820	+0.6472	+ 127	−63 32 0.40	+8.534	+ 160
166	[δ Mensae]	5.62	K 0 p	4 22 6.970	−4.0778	+ 100	−80 21 39.07	+8.374	+ 71
164	ε Tauri	3.63	K 0	4 24 59.620	+3.5033	+ 80	+19 2 40.20	+8.037	− 36
165	*[1 Camel. seq.]	5.42	B 1	4 27 6.650	+4.7502	+ 7	+53 46 41.57	+7.903	0
167	[δ Caeli]	5.16	B 3	4 28 56.051	+1.8366	− 6	−45 5 10.35	+7.740	− 17
168	α Tauri	1.06	K 5	4 32 21.629	+3.4424	+ 48	+16 23 10.32	+7.290	− 189
171	α Doradus	3.47	A 0 p	4 32 39.392	+1.2973	+ 71	−55 10 20.66	+7.458	+ 3
170	[υ² Eridani]	3.88	K 0	4 33 8.318	+2.3317	− 46	−30 41 17.20	+7.410	− 6
169	ν Eridani	4.12	B 2	4 33 13.187	+2.9978	+ 2	− 3 28 40.43	+7.405	− 4
172	53 Eridani	3.98	K 0	4 35 20.371	+2.7471	− 54	−14 25 26.71	+7.073	− 164
174	τ Tauri	4.33	B 5	4 38 31.281	+3.6012	+ 5	+22 50 22.51	+6.958	− 19
173	Grb 848	6.04	F 0	4 40 27.257	+8.0610	+ 104	+75 49 55.34	+6.684	− 134
176	[μ Eridani]	4.18	B 5	4 42 24.079	+3.0002	+ 13	− 3 22 0.97	+6.646	− 12
175	4 Camelop.	5.35	A 2	4 42 49.787	+4.9954	+ 60	+56 38 57.70	+6.476	− 146
177	[μ Mensae]	5.69	B 9	4 43 40.499	−0.6021	+ 17	−71 2 42.07	+6.581	+ 28
178	9 Camelop.	4.38	B 0	4 47 52.302	+5.9598	+ 5	+66 14 24.68	+6.214	+ 10
179	[π⁴ Orionis]	3.78	B 3	4 47 54.136	+3.1954	0	+ 5 30 1.51	+6.195	− 7
180	π⁵ Orionis	3.87	B 3	4 51 1.214	+3.1250	− 2	+ 2 20 25.87	+5.939	− 3
181	ι Aurigae	2.90	K 2	4 52 57.185	+3.9072	+ 10	+33 4 11.03	+5.760	− 20
183	*ε Aurigae	var.	F 5 p	4 57 30.941	+4.3049	+ 6	+43 44 0.40	+5.384	− 14
182	10 Camelop.	4.22	G 0 p	4 57 53.654	+5.3352	− 1	+60 21 15.00	+5.354	− 12
184	ι Tauri	4.70	A 5	4 59 23.282	+3.5865	+ 53	+21 30 11.06	+5.197	− 43
185	η Aurigae	3.28	B 3	5 2 9.810	+4.2072	+ 33	+41 9 9.21	+4.933	− 71
186	ε Leporis	3.29	K 5	5 2 50.158	+2.5399	+ 20	−22 27 11.10	+4.880	− 68
187	[η² Pictoris]	4.92	K 5	5 3 21.372	+1.5509	+ 35	−49 39 39.27	+4.909	+ 6
189	[ζ Doradus]	4.76	F 8	5 4 26.580	+1.0254	− 70	−57 33 25.42	+4.915	+ 103
188	β Eridani	2.92	A 3	5 4 48.058	+2.9498	− 59	− 5 9 54.73	+4.702	− 79
190	[λ Eridani]	4.34	B 2	5 6 10.717	+2.8714	+ 3	− 8 49 56.12	+4.660	− 4
192	μ Aurigae	4.78	A 3	5 9 10.959	+4.1054	− 13	+38 24 46.62	+4.329	− 79
194	β Orionis	0.34	B 8 p	5 11 33.430	+2.8833	+ 2	− 8 16 18.85	+4.205	0
193	α Aurigae	0.21	G 0	5 12 6.335	+4.4321	+ 84	+45 56 13.28	+3.730	− 428
191	19 H. Camelop.	5.16	F 8	5 12 17.924	+9.8730	− 309	+79 9 52.83	+4.303	+ 161
196	ϑ Doradus	4.78	K 0	5 13 47.988	−0.0483	+ 15	−67 15 18.19	+4.052	+ 39
195	[τ Orionis]	3.68	B 5	5 14 35.694	+2.9131	− 12	− 6 54 36.07	+3.938	− 7
197	[o Columbae]	4.91	K 0	5 15 14.819	+2.1629	+ 62	−34 57 16.79	+3.560	− 329
198	[Columb. 12 G.]	5.75	A 0	5 16 55.422	+2.3925	+ 8	−27 25 53.48	+3.734	− 11
199	[ζ Pictoris]	5.52	F 8	5 17 50.731	+1.4706	+ 9	−50 40 18.81	+3.893	+ 227

Nr. 165. Doppelstern, Größe der Komponenten: 5.86 und 6.61. Nr. 183. Größe: Max. 3.4, Min. 4.1.

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		m		h m s	s		° ′ ″	″	
200	[η Orion. med.]	3.44	B 1	5 21 21.559	+3.0171	+ 5	− 2 27 9.76	+3.364	+ 1
201	γ Orionis	1.70	B 2	5 21 48.285	+3.2181	− 3	+ 6 17 41.71	+3.305	− 20
202	β Tauri	1.78	B 8	5 22 22.270	+3.7930	+ 25	+28 33 24.77	+3.099	− 177
203	17 Camelop.	5.75	K 5	5 24 18.484	+5.6655	− 3	+63 1 5.40	+3.108	− 1
204	[β Leporis]	2.96	G 0	5 25 35.334	+2.5714	+ 4	−20 48 27.90	+2.905	− 93
206	δ Orionis	2.48 6.87	B 0	5 28 50.282	+3.0651	0	− 0 20 36.88	+2.715	− 2
207	α Leporis	2.69	F 0	5 29 59.700	+2.6462	+ 2	−17 51 55.55	+2.619	+ 2
208	[φ¹ Orionis]	4.53	B 0	5 31 24.946	+3.2936	− 1	+ 9 26 56.56	+2.483	− 10
205	Grb 966	6.36	K 5	5 31 25.371	+8.0227	− 8	+75 0 23.69	+2.512	+ 20
209	ι Orionis	2.87	Oe 5	5 32 23.989	+2.9352	+ 4	− 5 56 57.44	+2.404	− 4
210	ε Orionis	1.75	B 0	5 33 3.994	+3.0444	+ 1	− 1 14 24.35	+2.347	− 3
212	β Doradus	3.81	F 5 p	5 33 5.059	+0.5192	− 13	−62 31 48.75	+2.346	− 2
211	ζ Tauri	3.00	B 3 p	5 33 56.307	+3.5861	+ 6	+21 6 22.99	+2.249	− 26
214	[γ Mensae]	5.06	K 0	5 34 19.632	−2.3814	+ 286	−76 23 10.18	+2.538	+ 298
213	[σ Orionis]	3.78	B 0	5 35 37.966	+3.0119	0	− 2 38 3.97	+2.126	− 1
215	α Columbae	2.75	B 5 p	5 37 24.162	+2.1724	− 2	−34 6 22.71	+1.936	− 37
216	ο Aurigae	5.52	A 0	5 41 5.749	+4.6484	− 6	+49 48 4.69	+1.643	− 9
217	[γ Leporis]	3.80	F 8	5 41 52.741	+2.5020	− 201	−22 28 3.00	+1.208	− 375
218	[130 Tauri]	5.51	F 0	5 43 49.282	+3.4990	+ 4	+17 42 27.32	+1.408	− 6
219	ζ Leporis	3.67	A 2	5 44 8.732	+2.7185	− 12	−14 50 37.54	+1.384	− 2
220	κ Orionis	2.20	B 0	5 44 48.935	+2.8458	+ 4	− 9 41 25.07	+1.324	− 3
221	[ν Aurigae]	4.18	K 0	5 47 11.494	+4.1581	− 4	+39 7 56.63	+1.131	+ 11
222	[δ Leporis]	3.90	K 0	5 48 39.281	+2.5803	+ 164	−20 52 59.55	+0.339	− 653
223	[β Columbae]	3.22	K 0	5 48 46.351	+2.1142	+ 34	−35 47 26.06	+1.385	+ 404
224	α Orionis	0.92	M a	5 51 48.884	+3.2485	+ 20	+ 7 23 49.74	+0.729	+ 13
226	[η Leporis]	3.77	F 0	5 53 34.845	+2.7330	− 27	−14 10 39.73	+0.701	+ 140
225	δ Aurigae	3.88	K 0	5 54 25.314	+4.9409	+ 100	+54 16 56.59	+0.366	− 122
227	β Aurigae	2.07	A 0 p	5 54 58.870	+4.4021	− 42	+44 56 35.45	+0.431	− 8
228	ϑ Aurigae	2.71	A 0 p	5 55 29.619	+4.0923	+ 48	+37 12 36.40	+0.307	− 87
229	η Columbae	4.03	K 0	5 57 14.937	+1.8372	+ 22	−42 49 4.78	+0.207	− 34
230	[66 Orionis]	5.70	K 0	6 1 41.768	+3.1697	− 6	+ 4 9 48.71	−0.163	− 15
231	[Puppis 1 G.]	6.22	F 8	6 2 41.328	+1.7270	− 83	−45 2 8.28	−0.003	+ 232
232	ν Orionis	4.40	B 2	6 4 1.943	+3.4265	+ 11	+14 46 38.49	−0.384	− 31
233	[36 Camelop.]	5.39	K 0	6 6 36.796	+6.0354	− 5	+65 44 1.23	−0.607	− 29
235	[δ Pictoris]	4.84	B 1	6 9 5.360	+1.1672	− 22	−54 57 15.83	−0.802	− 7
236	*η Geminor.	var.	M a	6 11 8.136	+3.6224	− 42	+22 31 35.53	−0.987	− 13
234	22 H. Camelop.	4.73	A 0	6 12 1.116	+6.6144	+ 15	+69 20 41.77	−1.153	− 102
239	[α Mensae]	5.14	K 0	6 12 4.988	−1.7924	+ 233	−74 43 58.06	−1.283	− 227
237	[2 Lyncis]	4.42	A 0	6 14 9.293	+5.2952	− 7	+59 2 9.62	−1.208	+ 29
238	[κ Columbae]	4.51	K 0	6 14 20.752	+2.1345	− 6	−35 7 8.41	−1.180	+ 74

Nr. 236. Größe: Max. 3.3, Min. 4.2.

Mittlere Sternörter 1938.0

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ′ ″	″	
240	ζ Canis maj.	3.10	B 3	6 17 55.935	+ 2.3030	+ 2	−30 2 4.82	−1.563	+ 4
241	μ Geminor.	3.19	M a	6 19 12.631	+ 3.6306	+ 48	+22 32 49.89	−1.789	− 111
243	β Canis maj.	1.99	B 1	6 19 58.133	+ 2.6421	− 4	−17 55 25.79	−1.742	+ 2
242	ψ¹ Aurigae	5.10	K 2	6 20 7.536	+ 4.6227	+ 9	+49 19 18.44	−1.761	− 3
244	8 Monocer.	4.48 6.54	A 5	6 20 28.990	+ 3.1800	− 7	+ 4 37 32.84	−1.785	+ 4
245	α Argus	−0.86	F 0	6 22 34.454	+ 1.3315	+ 16	−52 39 40.44	−1.960	+ 11
246	10 Monocer.	4.98	B 3	6 24 53.883	+ 2.9631	− 2	− 4 43 20.51	−2.168	+ 5
247	8 Lyncis	6.05	G 0	6 32 1.751	+ 5.4854	− 285	+61 32 17.81	−3.068	− 276
249	ξ² Canis maj.	4.54	A 0	6 32 27.442	+ 2.5144	+ 5	−22 54 52.21	−2.816	+ 13
251	γ Geminor.	1.93	A 0	6 34 7.866	+ 3.4668	+ 34	+16 27 13.77	−3.020	− 46
250	51 Aurigae	5.71	K 0	6 34 21.874	+ 4.1583	− 19	+39 26 50.72	−3.109	− 114
248	23 H. Camelop.	5.60	F 8	6 35 41.364	+10.2609	− 304	+79 38 10.92	−3.730	− 621
252	ν Argus	3.18	B 8	6 35 51.820	+ 1.8357	− 4	−43 8 27.24	−3.144	− 20
253	*S Monocer.	4.68	Oe 5	6 37 33.871	+ 3.3050	+ 6	+ 9 57 16.77	−3.276	− 5
254	ε Geminor.	3.18	G 5	6 40 7.160	+ 3.6924	+ 3	+25 11 39.39	−3.505	− 15
256	ξ Geminor.	3.40	F 5	6 41 48.634	+ 3.3681	− 75	+12 57 50.25	−3.835	− 199
255	[ψ⁵ Aurigae]	5.34	G 0	6 42 16.423	+ 4.3264	+ 7	+43 38 27.76	−3.522	+ 154
257	*α Canis maj.	−1.58	A 0	6 42 25.054	+ 2.6436	− 371	−16 37 47.45	−4.900	−1211
258	18 Monocer.	4.70	K 0	6 44 37.753	+ 3.1296	− 2	+ 2 28 52.94	−3.898	− 20
264	[ζ Mensae]	5.64	A 2	6 45 14.400	− 4.9758	− 32	−80 45 0.28	−3.846	+ 85
259	[43 Camelop.]	5.13	B 5	6 47 1.897	+ 6.4762	+ 16	+68 57 48.09	−4.082	+ 3
262	α Pictoris	3.30	A 5	6 47 33.405	+ 0.6169	− 99	−61 52 28.36	−3.873	+ 256
263	[τ Argus]	2.83	K 0	6 48 23.842	+ 1.4886	+ 29	−50 32 25.37	−4.297	− 96
261	ϑ Geminor.	3.64	A 2	6 48 42.315	+ 3.9561	+ 7	+34 2 16.05	−4.282	− 55
260	[24 H. Camel.]	4.75	K 5	6 51 3.259	+ 8.7668	+ 216	+77 3 37.68	−4.442	− 14
266	ϑ Canis maj.	4.25	K 2	6 51 18.566	+ 2.7877	− 94	−11 57 34.74	−4.463	− 13
265	15 Lyncis	4.54	G 0	6 51 54.875	+ 5.1984	− 1	+58 30 23.39	−4.632	− 130
267	[ι Volantis]	5.52	B 8	6 52 9.919	− 0.6838	− 4	−70 53 11.62	−4.511	+ 12
268	ε Canis maj.	1.63	B 1	6 56 11.302	+ 2.3578	0	−28 53 11.74	−4.864	+ 1
269	*ζ Geminor.	var.	G 0 p	7 0 26.010	+ 3.5595	0	+20 39 46.52	−5.227	− 3
270	[o² Canis maj.]	3.12	B 5 p	7 0 26.126	+ 2.5054	− 2	−23 44 29.64	−5.224	0
271	γ Canis maj.	4.07	B 5	7 0 57.249	+ 2.7153	+ 8	−15 32 25.64	−5.281	− 12
272	[Carinae 27 G.]	5.30	A 0	7 3 8.885	+ 1.1164	− 24	−56 39 18.39	−5.460	− 7
273	δ Canis maj.	1.98	F 8 p	7 5 52.175	+ 2.4391	− 8	−26 17 37.09	−5.678	+ 3
274	63 Aurigae	5.07	K 2	7 7 23.688	+ 4.1289	+ 45	+39 25 24.97	−5.809	0
275	[J Puppis]	4.47	F 0	7 10 47.485	+ 1.7096	− 147	−46 39 18.31	−6.002	+ 91
276	[64 Aurigae]	5.75	A 3	7 13 43.843	+ 4.1745	− 3	+40 59 42.87	−6.334	+ 3
277	λ Geminor.	3.65	A 2	7 14 31.891	+ 3.4487	− 31	+16 39 13.43	−6.448	− 44
278	π Argus	2.74	K 5	7 14 57.128	+ 2.1186	− 14	−36 59 6.75	−6.436	+ 3
279	δ Geminor.	3.51	F 0	7 16 25.365	+ 3.5847	− 11	+22 5 53.56	−6.571	− 10

Nr. 253. Doppelstern, Größe der Komponenten: 6.0 und 8.8.
Nr. 257. Ort des Schwerpunktes. Die Reduktion auf den Hauptstern ist nach den Elementen von Auwers A. N. 3085:

1938.0 $\Delta\alpha = -0\overset{s}{.}036$ $\qquad \Delta\delta = -1\overset{''}{.}74$
1939.0 $ = -0.014$ $\qquad = -1.51$

Nr. 269. Größe: Max. 3.7, Min. 4.3.

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″001
		m		h m s	s		° ′ ″	″	
281	δ Volantis	4.02	F 5	7 16 52.159	−0.0252	+ 4	−67 50 38.12	− 6.610	− 12
280	19 Lyncis seq.	5.61	B 8	7 17 49.010	+4.8994	− 1	+55 24 1.49	− 6.710	− 34
283	[η Can. maj.]	2.43	B 5 p	7 21 38.545	+2.3732	− 5	−29 10 51.25	− 6.977	+ 13
282	ι Geminor.	3.89	K o	7 21 52.758	+3.7282	− 83	+27 55 22.96	− 7.095	− 85
285	β Canis min.	3.09	B 8	7 23 47.397	+3.2545	− 31	+ 8 24 56.63	− 7.206	− 40
284	Grb 1308	5.80	K o	7 24 26.860	+6.2523	− 7	+68 35 42.22	− 7.264	− 44
286	ρ Geminor.	4.18	F o	7 25 7.618	+3.8606	+122	+31 54 34.79	− 7.093	+ 182
287	*α Geminor.	2.85 1.99	A o	7 30 38.774	+3.8315	−129	+32 1 36.31	− 7.804	− 81
288	[Pupp. 108 G.]	4.52	F 8	7 31 23.900	+2.5676	− 39	−22 9 41.03	− 7.765	+ 18
289	25 Monocer.	5.17	F 5	7 34 11.774	+2.9833	− 47	− 3 58 16.26	− 7.988	+ 20
290	[f Puppis]	4.62	B 8	7 35 4.405	+2.2195	− 27	−34 49 40.89	− 8.062	+ 16
291	*α Canis min.	0.48	F 5	7 36 3.456	+3.1411	−470	+ 5 23 7.15	− 9.184	−1027
292	24 Lyncis	4.96	A 2	7 37 46.368	+5.0816	− 47	+58 51 27.55	− 8.347	− 53
293	[26 Monocer.]	4.07	K o	7 38 17.084	+2.8660	− 57	− 9 24 18.87	− 8.356	− 21
294	κ Geminor.	3.68	G 5	7 40 42.484	+3.6238	− 15	+24 32 53.81	− 8.581	− 54
295	β Geminor.	1.21	K o	7 41 31.532	+3.6730	−468	+28 10 39.19	− 8.643	− 52
297	ζ Volantis	3.89	K o	7 42 35.490	−0.7368	+ 8	−72 27 27.19	− 8.668	+ 8
296	π Geminor.	5.29	K 2	7 43 30.826	+3.8708	− 1	+33 34 10.36	− 8.779	− 31
298	[Pupp. 205 G.]	5.34	G o	7 48 54.073	+2.7785	− 41	−13 43 56.39	− 9.512	− 343
301	[α Puppis]	3.76	G 5	7 50 5.099	+2.0621	− 18	−40 24 53.94	− 9.261	+ 1
299	[26 Lyncis]	5.69	K o	7 50 12.325	+4.3722	− 40	+47 43 37.67	− 9.278	− 6
300	Grb 1374	5.56	K o	7 52 48.818	+7.2004	− 31	+74 5 12.02	− 9.505	− 32
303	χ Argus	3.60	B 3	7 55 12.215	+1.5264	− 32	−52 48 54.81	− 9.633	+ 24
302	[53 Camelop.]	6.00	A 2 p	7 56 25.711	+5.1332	− 30	+60 29 45.82	− 9.772	− 21
304	[27 Monocer.]	5.06	K o	7 56 38.425	+2.9988	− 27	− 3 30 32.75	− 9.757	+ 9
305	χ Geminor.	5.04	K o	7 59 42.865	+3.6865	− 15	+27 58 10.89	−10.046	− 46
306	ζ Argus	2.27	O d	8 1 24.229	+2.1080	− 34	−39 49 39.42	−10.117	+ 10
307	27 Lyncis	4.87	A 2	8 3 48.227	+4.5175	− 59	+51 41 14.20	−10.313	− 4
308	ι Navis	2.88	F 5	8 4 54.183	+2.5549	− 64	−24 7 28.27	−10.344	+ 47
309	γ Argus	2.22	O a p	8 7 37.271	+1.8488	− 12	−47 9 11.45	−10.598	− 4
311	20 Navis	5.05	G 5	8 10 29.009	+2.7580	− 8	−15 36 1.14	−10.811	− 6
310	Br 1147	5.73	G 5	8 11 48.287	+7.5591	+ 58	+75 56 57.34	−10.885	+ 17
312	β Cancri	3.76	K 2	8 13 9.297	+3.2545	− 30	+ 9 22 40.54	−11.053	− 52
313	[q Puppis]	4.43	A 5	8 16 13.952	+2.2445	−104	−36 27 58.72	−11.136	+ 89
314	31 Lyncis	4.43	K 5	8 18 35.949	+4.1113	− 8	+43 23 18.73	−11.504	− 108
315	ε Argus	1.74	K o + B	8 21 14.658	+1.2328	− 32	−59 18 33.78	−11.571	+ 15
318	ϑ Chamael.	4.26	K o	8 22 31.944	−1.7862	−458	−77 17 6.75	−11.647	+ 31
316	Br 1197	3.95	A o	8 22 33.826	+2.9987	− 41	− 3 42 10.51	−11.700	− 21
319	[β Volantis]	3.65	K o	8 25 4.115	+0.6557	− 55	−65 55 47.68	−12.034	− 177
317	o Ursae maj.	3.47	G o	8 25 7.869	+4.9931	−174	+60 55 38.56	−11.972	− 110

Nr. 287. Rektaszension der Mitte, Deklination des folgenden, helleren Sterns.
Nr. 291. Ort des Schwerpunktes. Die Reduktion auf den Ort des hellen Sterns beträgt nach den Elementen von Auwers A.N. 3929:

$$1938.0 \quad \Delta\alpha = +0\overset{s}{.}057 \qquad \Delta\delta = -0\overset{''}{.}56$$
$$1939.0 \quad = +0.052 \qquad = -0.64$$

Mittlere Sternörter 1938.0

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ′ ″	″	
320	Grb 1450	6.05	K o	8 28 53.553	+3.9030	— 83	+38 13 50.02	—12.295	—170
321	η Cancri	5.52	K o	8 29 7.631	+3.4712	— 26	+20 39 11.11	—12.191	— 50
322	[Grb 1446]	6.29	K o	8 32 51.725	+6.6946	— 37	+73 50 56.14	—12.503	—104
323	[Grb 1460]	6.03	K o	8 34 42.673	+4.4501	— 38	+52 55 49.76	—12.561	— 35
324	[*e* Velorum]	4.13	A 5	8 35 27.732	+2.1084	— 22	—42 46 17.51	—12.584	— 7
325	[6 Hydrae]	5.15	K 2	8 37 5.200	+2.8419	— 64	—12 15 18.42	—12.690	— 3
327	α Pyxidis	3.70	B 2	8 41 6.000	+2.4105	— 15	—32 57 42.93	—12.946	+ 12
326	δ Cancri	4.17	K o	8 41 9.906	+3.4109	— 9	+18 23 0.16	—13.198	—236
328	ι Cancri	6.61 4.20	A 5 G 5	8 42 57.034	+3.6328	— 12	+28 59 16.81	—13.127	— 47
330	δ Argus	2.01	A o	8 42 59.516	+1.6570	+ 21	—54 28 51.04	—13.176	— 93
331	[η Chamael.]	5.62	B 9	8 43 28.551	—2.0168	— 151	—78 44 19.89	—13.081	+ 34
329	[ε Hydrae]	3.48	F 8	8 43 29.692	+3.1782	— 126	+ 6 38 50.97	—13.167	— 50
332	[γ Pyxidis]	4.19	K 2	8 47 54.013	+2.5464	— 99	—27 28 43.82	—13.312	+ 94
333	[σ² Cancri med.]	5.60	K o	8 50 28.034	+3.6627	+ 31	+30 48 55.57	—13.597	— 26
334	ζ Hydrae	3.30	K o	8 52 7.107	+3.1724	— 64	+ 6 10 57.51	—13.665	+ 12
336	*c* Carinae	3.98	B 8	8 53 38.676	+1.3612	— 26	—60 24 25.07	—13.723	+ 52
335	ι Ursae maj.	3.12	A 5	8 54 58.407	+4.1123	— 437	+48 17 10.86	—14.105	—246
337	α Cancri	4.27	A 3	8 55 5.946	+3.2825	+ 26	+12 5 55.91	—13.902	— 35
339	10 Ursae maj.	4.09	F 5	8 56 37.456	+3.8989	— 383	+42 1 45.98	—14.226	—263
338	[ρ Ursae maj.]	4.99	M a	8 56 59.057	+5.4238	— 34	+67 52 23.08	—13.971	+ 15
341	κ Ursae maj.	3.68	A o	8 59 24.184	+4.1006	— 27	+47 24 10.95	—14.201	— 65
340	[Grb 1501]	5.68	A 2	8 59 28.654	+4.4013	— 8	+54 31 47.14	—14.138	+ 3
343	α Volantis	4.18	A 5	9 1 28.357	+0.9489	— 8	—66 8 54.41	—14.377	—114
342	[*c* Velorum]	3.69	K o	9 2 0.790	+2.0670	— 70	—46 51 1.27	—14.325	— 28
344	σ² Ursae maj.	4.87	F 8	9 4 57.949	+5.2902	— 17	+67 23 17.32	—14.545	— 67
345	λ Argus	2.22	K 5	9 5 42.782	+2.2054	— 33	—43 10 53.36	—14.513	+ 9
346	[36 Lyncis]	5.30	B 8	9 9 45.481	+3.9281	— 18	+43 28 28.37	—14.806	— 42
347	ϑ Hydrae	3.84	A o	9 11 8.425	+3.1223	+ 89	+ 2 34 36.63	—15.158	—313
348	β Argus	1.80	A o	9 12 31.671	+0.6622	— 304	—69 27 41.89	—14.829	+ 97
349	[38 Lyncis]	3.82	A 2	9 14 59.625	+3.7368	— 18	+37 3 58.08	—15.199	—129
351	[ι Argus]	2.25	F o	9 15 25.790	+1.6055	— 35	—59 0 52.47	—15.093	+ 2
350	*83 Cancri	6.60	F 5	9 15 31.480	+3.3500	— 80	+17 58 9.17	—15.235	—135
352	40 Lyncis	3.30	K 5	9 17 17.063	+3.6573	— 178	+34 39 21.05	—15.188	+ 12
353	κ Argus	2.63	B 3	9 20 11.515	+1.8570	— 22	—54 44 43.11	—15.363	+ 2
354	α Hydrae	2.16	K 2	9 24 32.484	+2.9487	— 7	— 8 23 20.16	—15.575	+ 32
355	*h* Ursae maj.	3.75	F o	9 26 39.863	+4.7401	+ 167	+63 20 3.80	—15.695	+ 28
356	[ε Antliae]	4.64	K 2	9 26 41.069	+2.4755	— 25	—35 40 46.42	—15.737	— 14
359	ψ Argus	3.64	F 5	9 28 15.346	+2.3618	— 172	—40 11 40.07	—15.734	+ 74
358	ϑ Ursae maj.	3.26	F 8 p	9 28 43.396	+4.0176	—1026	+51 57 39.66	—16.378	—545
357	*d* Ursae maj.	4.57	G o	9 29 2.211	+5.3211	— 119	+70 6 15.99	—15.776	+ 75

Nr. 350. Größe aus Harvard 54 entnommen.

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		m		h m s	s		° ′ ″	″	
361	[N Velorum]	3.04	K 5	9 29 20.283	+1.8235	− 36	−56 45 36.74	−15.865	+ 1
360	10 Leon. min.	4.62	G 5	9 30 25.961	+3.6786	+ 13	+36 40 26.12	−15.951	− 26
362	[H. Carinae]	5.52	K 2	9 31 9.176	+0.4554	− 61	−72 48 21.22	−15.980	− 17
363	[Grb 1564]	5.74	K o	9 36 58.463	+5.1507	−131	+69 31 16.05	−16.339	− 73
364	[κ Hydrae]	4.96	B 3	9 37 20.033	+2.8763	− 18	−14 3 0.05	−16.295	− 11
365	[o Leonis]	3.76	F 5 + A 3	9 37 50.654	+3.2030	− 94	+10 10 31.17	−16.347	− 37
366	ϑ Antliae	4.98	F 5 p	9 41 26.193	+2.6739	− 40	−27 29 5.41	−16.455	+ 35
367	ε Leonis	3.12	G o p	9 42 20.191	+3.4072	− 31	+24 3 38.22	−16.552	− 17
369	υ Argus	3.15 6.03	F o	9 45 33.185	+1.5001	− 21	−64 47 2.35	−16.694	− 1
368	υ Ursae maj.	3.89	F o	9 46 35.966	+4.2739	−379	+59 19 53.48	−16.897	−153
370	6 Sextantis	6.00	A 2	9 48 6.624	+3.0236	+ 8	− 3 57 7.19	−16.845	− 30
371	[μ Leonis]	4.10	K o	9 49 14.526	+3.4135	−162	+26 17 59.62	−16.925	− 56
373	[Hydrae 183 G.]	5.16	M a	9 51 56.761	+2.8306	− 25	−18 42 55.01	−17.062	− 66
372	Grb 1586	5.96	K o	9 52 53.122	+5.3824	−179	+73 10 32.13	−17.084	− 45
374	[19 Leon. min.]	5.19	F 5	9 53 53.752	+3.6780	−100	+41 21 6.52	−17.112	− 27
375	[φ Argus]	3.70	B 5	9 54 40.991	+2.1051	− 21	−54 16 19.68	−17.124	− 2
377	[η Antliae]	5.25	F o	9 56 12.501	+2.5729	− 83	−35 35 36.89	−17.214	− 24
376	[12 Sextantis]	6.63	A 5	9 56 30.203	+3.1124	− 47	+ 3 40 55.41	−17.176	+ 27
378	π Leonis	4.89	M a	9 56 56.353	+3.1712	− 21	+ 8 20 32.92	−17.248	− 25
379	η Leonis	3.58	A o p	10 3 57.331	+3.2718	− 2	+17 3 56.64	−17.535	− 6
380	α Leonis	1.34	B 8	10 5 4.364	+3.1961	−167	+12 16 15.25	−17.576	− 1
381	λ Hydrae	3.83	K o	10 7 33.939	+2.9253	−134	−12 2 48.78	−17.766	− 87
382	q Velorum	4.09	A 2	10 12 7.709	+2.5156	−154	−41 48 50.92	−17.819	+ 45
385	[ω Argus]	3.56	B 8	10 12 16.176	+1.4314	− 29	−69 43 46.93	−17.870	0
384	ζ Leonis	3.65	F o	10 13 14.780	+3.3384	+ 15	+23 43 37.39	−17.916	− 7
383	λ Ursae maj.	3.52	A 2	10 13 21.996	+3.6218	−147	+43 13 28.78	−17.962	− 49
386	μ Ursae maj.	3.21	K 5	10 18 38.645	+3.5776	− 70	+41 48 43.04	−18.091	+ 24
387	30 H. Urs. maj.	4.92	A o	10 19 41.090	+4.3356	− 25	+65 52 51.17	−18.173	− 18
388	[25 Sextantis]	6.10	B 9	10 20 18.459	+3.0320	− 40	− 3 45 36.59	−18.180	− 2
389	μ Hydrae	4.06	K 5	10 23 5.481	+2.9019	− 85	−16 31 9.21	−18.360	− 82
391	J Carinae	4.08	F 5	10 23 10.048	+1.1907	− 67	−73 42 56.05	−18.298	− 17
390	31 Leon. min.	4.41	K o	10 24 18.333	+3.4722	− 96	+37 1 32.16	−18.428	−106
392	Lac. α Antliae	4.42	K 5	10 24 18.731	+2.7444	− 62	−30 45 5.59	−18.312	+ 10
393	s Carinae	4.08	F o	10 25 35.870	+2.1995	− 32	−58 25 20.93	−18.381	− 14
394	36 Ursae maj.	4.84	F 5	10 26 40.412	+3.8449	−216	+56 17 57.22	−18.438	− 33
396	[ρ Leonis]	3.85	B o p	10 29 32.911	+3.1596	− 6	+ 9 37 34.44	−18.508	− 5
397	[p Carinae]	3.58	B 5 p	10 29 49.006	+2.1329	− 18	−61 21 57.39	−18.507	+ 5
395	9 H. Dracon.	5.04	G 5	10 29 52.795	+5.1221	− 95	+76 1 59.92	−18.518	− 4
399	[44 Hydrae]	5.32	K 2	10 31 3.872	+2.8538	− 2	−23 25 30.50	−18.533	+ 21
398	[37 Ursae maj.]	5.16	F o	10 31 11.021	+3.8710	+ 83	+57 24 9.56	−18.522	+ 36

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0"001
		m		h m s	s		° ' "	"	
400	*[*p* Velorum]	4.06	F 2 + A 3	10 34 41.326	+2.5168	—183	—47 54 12.01	—18.704	— 33
401	[γ Chamael.]	4.10	M a	10 34 45.203	+0.7192	—116	—78 17 8.86	—18.643	+ 30
402	[*x* Velorum]	4.37	G o	10 36 49.759	+2.3809	— 75	—55 16 48.77	—18.759	— 21
404	33 Sextantis	6.40	K o	10 38 14.974	+3.0521	— 94	— 1 24 54.57	—18.907	—125
403	[35 H. Urs. maj.]	5.23	K o	10 38 39.406	+4.3067	— 19	+69 24 4.10	—18.812	— 18
405	[41 Leon. min.]	5.05	A 2	10 40 2.957	+3.2637	— 80	+23 30 49.09	—18.824	+ 13
406	ϑ Argus	3.03	B o	10 40 44.433	+2.1389	— 26	—64 4 9.21	—18.853	+ 4
407	42 Leon. min.	5.37	B 9	10 42 25.393	+3.3383	— 15	+31 0 33.95	—18.944	— 37
408	μ Argus	2.84	G 5	10 44 5.761	+2.5765	+ 49	—49 5 32.34	—19.019	— 65
411	[δ² Chamael.]	4.62	B 3	10 45 13.678	+0.5783	—121	—80 12 46.66	—18.977	+ 9
409	*l* Leonis	5.27	A o	10 46 0.021	+3.1542	— 3	+10 52 25.33	—19.038	— 30
410	[ν Hydrae]	3.32	K o	10 46 33.870	+2.9600	+ 66	—15 52 7.74	—18.829	+194
412	[46 Leon. min.]	3.92	K o	10 49 51.053	+3.3578	+ 75	+34 32 58.59	—19.394	—282
414	[ι Antliae]	4.70	K o	10 53 49.472	+2.7945	+ 62	—36 48 15.01	—19.351	—137
413	[Br 1508]	6.26	G 5	10 55 3.124	+4.8207	—257	+78 6 10.57	—19.271	— 26
415	*i* Velorum	4.56	A 2	10 57 18.316	+2.7512	+ 20	—41 53 34.93	—19.302	— 4
416	β Ursae maj.	2.44	A o	10 58 6.849	+3.6261	+101	+56 42 54.44	—19.291	+ 26
417	α Ursae maj.	1.95	K o	10 59 55.135	+3.7093	—174	+62 5 9.84	—19.430	— 72
418	χ Leonis	4.66	F o	11 1 49.220	+3.0952	—231	+ 7 40 17.80	—19.447	— 45
419	[χ Hydrae]	5.06	F 5	11 2 20.442	+2.8885	—154	—26 57 31.07	—19.419	— 7
420	ψ Ursae maj.	3.15	K o	11 6 11.186	+3.3764	— 57	+44 50 6.68	—19.529	— 36
421	β Crateris	4.52	A 2	11 8 36.362	+2.9500	o	—22 29 13.01	—19.639	— 98
422	δ Leonis	2.58	A 3	11 10 48.865	+3.1921	+106	+20 51 49.21	—19.720	—136
423	ϑ Leonis	3.41	A o	11 10 59.331	+3.1489	— 43	+15 46 7.53	—19.669	— 81
424	[Grb 1757]	5.97	K o	11 13 12.755	+3.3841	— 97	+49 48 53.31	—19.650	— 22
425	ν Ursae maj.	3.71	K o	11 15 8.145	+3.2430	— 16	+33 25 58.22	—19.639	+ 22
426	δ Crateris	3.82	K o	11 16 14.339	+2.9989	— 88	—14 26 34.08	—19.479	+200
427	σ Leonis	4.13	A o	11 17 56.430	+3.0940	— 62	+ 6 22 9.90	—19.719	— 12
428	π Centauri	4.26	B 5	11 18 10.329	+2.7332	— 41	—54 9 3.71	—19.724	— 13
429	Grb 1771	5.98	A o	11 19 11.340	+3.5721	— 10	+64 40 12.42	—19.692	+ 34
430	[ι Leonis]	4.03	F 5	11 20 41.601	+3.1275	+106	+10 52 15.14	—19.833	— 84
431	[γ Crateris]	4.14	A 5	11 21 46.931	+2.9966	— 72	—17 20 35.31	—19.759	+ 7
432	[58 Ursae maj.]	5.88	F 8	11 27 10.291	+3.2498	— 43	+43 30 49.22	—19.767	+ 72
433	λ Draconis	4.06	M a	11 27 44.801	+3.5711	— 79	+69 40 24.39	—19.867	— 21
434	ξ Hydrae	3.72	G 5	11 29 56.870	+2.9492	—167	—31 30 51.82	—19.914	— 43
436	λ Centauri	3.34	B 9	11 32 54.643	+2.7622	— 58	—62 40 36.00	—19.921	— 17
435	[*C*² Centauri]	5.42	F o	11 32 54.760	+2.9036	+ 13	—47 17 51.30	—19.951	— 47
437	υ Leonis	4.47	K o	11 33 46.447	+3.0718	+ 1	— 0 28 52.91	—19.877	+ 36
438	[π Chamael.]	5.74	F o	11 34 41.636	+2.4735	—280	—75 33 11.39	—19.926	— 5
439	[ο Hydrae]	4.88	B 8	11 37 7.762	+2.9789	— 30	—34 24 3.14	—19.943	+ 1

Nr. 400. Doppelstern, Größe der Komponenten: 4.5 und 5.0.

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0"001
		m		h m s	s		° ' "	"	
440	3 Draconis	5.48	K o	11 39 1.968	+3.3542	− 77	+67 5 17.65	−19.920	+ 40
442	[λ Muscae]	3.80	A 5	11 42 40.118	+2.8268	−153	−66 23 6.16	−19.966	+ 20
441	χ Ursae maj.	3.85	K o	11 42 47.089	+3.1716	−133	+48 7 23.44	−19.968	+ 20
443	[Centauri 65 G.]	4.22	G o	11 43 30.275	+2.8983	− 25	−60 50 1.55	−20.027	− 35
444	β Leonis	2.23	A 2	11 45 53.937	+3.0608	−341	+14 55 7.35	−20.123	−118
445	β Virginis	3.80	F 8	11 47 27.939	+3.1252	+494	+ 2 6 50.84	−20.290	−276
446	[*B* Centauri]	4.71	K o	11 48 2.096	+2.9926	−111	−44 49 43.77	−20.063	− 46
447	γ Ursae maj.	2.54	A o	11 50 34.744	+3.1594	+107	+54 2 21.85	−20.024	+ 2
448	[ε Chamael.]	5.05	B 9	11 56 30.990	+2.9622	−162	−77 52 35.70	−20.050	− 9
449	[Centauri 88 G.]	5.28	F o	12 0 26.342	+3.1021	+267	−42 5 13.06	−20.166	−122
450	o Virginis	4.24	G 5	12 2 3.096	+3.0564	−147	+ 9 4 37.86	−20.005	+ 38
451	[Grb 1852]	5.96	K o	12 2 7.616	+3.0616	+435	+77 15 8.55	−20.139	− 96
452	δ Centauri	2.88	B 3 p	12 5 8.132	+3.1048	− 44	−50 22 37.79	−20.057	− 18
453	ε Corvi	3.21	K o	12 6 55.936	+3.0845	− 51	−22 16 29.95	−20.024	+ 11
454	4 H. Draconis	5.12	A 5	12 9 19.097	+2.8206	+ 23	+77 57 38.58	−20.004	+ 23
455	[δ Crucis]	3.08	B 3	12 11 50.431	+3.1801	− 51	−58 24 15.46	−20.044	− 27
456	δ Ursae maj.	3.44	A 2	12 12 22.055	+2.9739	+135	+57 22 36.91	−20.012	+ 3
457	[γ Corvi]	2.78	B 8	12 12 36.867	+3.0846	−112	−17 11 52.17	−19.997	+ 17
458	[2 Can. ven.]	5.80	K 5	12 13 1.519	+3.0096	+ 26	+41 0 18.14	−20.057	− 45
459	β Chamael.	4.38	B 5	12 14 40.015	+3.4969	−144	−78 58 4.99	−19.991	+ 12
460	η Virginis	4.00	A o	12 16 43.988	+3.0694	− 42	− 0 19 20.67	−20.013	− 23
461	[6 Can. ven.]	5.22	K o	12 22 47.953	+2.9575	− 67	+39 21 44.68	−19.981	− 36
462	α Crucis med.	1.58 2.09	B 1	12 23 8.340	+3.3302	− 44	−62 45 22.08	−19.973	− 31
463	[Hydr. 323 G.]	5.68	A o	12 23 35.258	+3.1590	− 14	−32 29 12.51	−19.987	− 49
464	[σ Centauri]	4.16	B 3	12 24 40.613	+3.2399	− 36	−49 53 15.26	−19.960	− 33
466	20 Comae	5.72	A 2	12 26 36.515	+3.0154	+ 26	+21 14 20.98	−19.948	− 39
465	δ Corvi	3.11	A o	12 26 39.193	+3.1035	−145	−16 10 13.70	−20.050	−142
467	[74 Ursae maj.]	5.44	A 5	12 27 4.014	+2.8040	− 96	+58 44 47.92	−19.816	+ 88
468	[γ Crucis]	1.61	M b	12 27 42.797	+3.3216	+ 26	−56 45 58.89	−20.175	−278
469	[γ Muscae]	4.04	B 5	12 28 44.392	+3.5729	− 82	−71 47 27.19	−19.908	− 22
470	8 Can. ven.	4.32	G o	12 30 48.200	+2.8511	−624	+41 41 38.40	−19.583	+280
472	ϰ Draconis	3.88	B 5 p	12 30 50.858	+2.5652	−117	+70 7 47.05	−19.855	+ 7
471	β Corvi	2.84	G 5	12 31 7.520	+3.1496	− 4	−23 3 14.90	−19.918	− 59
473	24 Comae seq.	5.18	K o	12 32 1.294	+3.0102	+ 2	+18 43 5.19	−19.830	+ 18
474	α Muscae	2.94	B 3	12 33 27.938	+3.5686	− 56	−68 47 39.76	−19.862	− 32
475	[χ Virginis]	4.78	K o	12 36 2.665	+3.0962	− 49	− 7 39 17.17	−19.833	− 37
476	γ Centauri	2.38	A o	12 38 5.166	+3.3034	−205	−48 37 10.62	−19.787	− 20
477	[γ Virgin. med.]	3.65 3.68	F o F o	12 38 31.044	+3.0398	−375	− 1 6 34.95	−19.756	+ 5
478	76 Ursae maj.	5.92	A o	12 38 51.903	+2.6249	− 45	+63 3 11.53	−19.773	− 17
479	[Hydr. 330 G.]	5.73	K 2	12 40 41.926	+3.1959	− 26	−27 59 2.89	−19.778	− 50

Mittlere Sternörter 1938.0

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ′ ″	″	
480	[β Muscae]	3.26	B 3	12 42 27.413	+3.6700	− 53	−67 46 8.92	−19.732	− 31
481	β Crucis	1.50	B 1	12 44 4.968	+3.4981	− 59	−59 21 0.77	−19.701	− 27
482	*n* Centauri	4.34	A 5	12 49 59.621	+3.3189	+ 45	−39 50 32.10	−19.606	− 37
483	ε Ursae maj.	1.68	A o p	12 51 18.471	+2.6419	+136	+56 17 45.57	−19.554	− 11
484	δ Virginis	3.66	M a	12 52 28.764	+3.0217	−315	+ 3 44 2.00	−19.583	− 63
486	8 Draconis	5.27	F o	12 53 0.827	+2.3907	− 15	+65 46 28.13	−19.543	− 34
485	12 Can. ven. sq.	2.90	A o p	12 53 7.861	+2.8076	−199	+38 39 10.10	−19.457	+ 50
487	[δ Muscae]	3.63	K 2	12 57 58.346	+4.1093	+531	−71 12 54.07	−19.442	− 36
488	ε Virginis	2.95	K o	12 59 5.433	+2.9865	−185	+11 17 31.08	−19.363	+ 18
489	[ξ² Centauri]	4.40	B 3	13 3 16.746	+3.4972	− 35	−49 34 29.40	−19.314	− 30
490	ϑ Virginis	4.44	A o	13 6 44.248	+3.1056	− 24	− 5 12 30.73	−19.239	− 39
491	[17 Can. ven.]	6.04	F o	13 7 12.592	+2.7562	− 59	+38 49 40.24	−19.156	+ 32
492	43 Comae	4.32	G o	13 8 58.922	+2.8005	−602	+28 11 31.04	−18.264	+878
493	[η Muscae]	4.95	B 8	13 11 1.460	+4.0569	− 33	−67 34 0.44	−19.118	− 30
494	[20 Can. ven.]	4.66	F o	13 14 45.943	+2.6914	−107	+40 53 54.16	−18.978	+ 8
495	γ Hydrae	3.33	G 5	13 15 32.787	+3.2604	+ 51	−22 50 42.34	−19.018	− 53
496	ι Centauri	2.91	A 2	13 17 6.179	+3.3687	−294	−36 23 9.17	−19.012	− 92
497	ζ Urs. maj. pr.	2.40	A 2 p	13 21 25.993	+2.4173	+143	+55 14 55.20	−18.817	− 25
498	α Virginis	1.21	B 2	13 21 55.412	+3.1598	− 28	−10 50 17.89	−18.810	− 33
499	Grb 2001	6.07	K 5	13 24 33.045	+1.5282	+ 35	+72 42 47.02	−18.710	− 15
500	69 H. Urs. maj.	5.41	A o	13 26 10.755	+2.2030	−109	+60 15 56.10	−18.606	+ 37
501	ζ Virginis	3.44	A 2	13 31 31.925	+3.0565	−190	− 0 16 46.65	−18.432	+ 35
502	17 H. Can. ven.	4.96	F o	13 32 1.803	+2.6787	+ 64	+37 29 58.01	−18.463	− 13
503	[Chamael. 49 G.]	6.44	A o	13 33 50.498	+5.1058	− 49	−75 22 6.63	−18.401	− 14
505	[Grb 2029]	5.67	K o	13 35 41.447	+1.4396	− 86	+71 33 26.97	−18.322	0
504	ε Centauri	2.56	B 1	13 35 56.670	+3.7941	− 37	−53 9 7.52	−18.347	− 34
506	[*i* Centauri]	4.36	F 5	13 42 9.415	+3.4062	−371	−32 43 51.65	−18.242	−156
507	τ Bootis	4.51	F 5	13 44 18.943	+2.8508	−340	+17 45 53.90	−17.975	+ 28
509	η Ursae maj.	1.91	B 3	13 45 6.030	+2.3655	−119	+49 37 19.40	−17.993	− 20
508	[μ Centauri]	3.32	B 2 p	13 45 52.280	+3.6096	− 28	−42 9 55.85	−17.962	− 19
510	89 Virginis	5.11	K o	13 46 29.919	+3.2587	− 69	−17 49 33.72	−17.957	− 38
511	[*i* Draconis]	4.77	M a	13 49 37.288	+1.7523	0	+65 1 44.93	−17.796	− 2
512	ζ Centauri	3.06	B 2 p	13 51 39.555	+3.7365	− 70	−46 59 3.07	−17.772	− 61
513	η Bootis	2.80	G o	13 51 43.961	+2.8569	− 41	+18 42 27.91	−18.072	−364
514	[Cent. 294 G.]	4.68	K o	13 53 8.429	+4.3320	− 46	−63 23 1.23	−17.685	− 35
515	[47 Hydrae]	5.17	B 8	13 55 2.096	+3.3649	− 34	−24 40 13.92	−17.612	− 40
517	11 Bootis	6.12	A 3	13 58 21.868	+2.7211	− 57	+27 41 6.82	−17.421	+ 8
516	τ Virginis	4.34	A 2	13 58 29.372	+3.0530	+ 13	+ 1 50 37.22	−17.454	− 30
518	β Centauri	0.86	B 1	13 59 25.776	+4.2259	− 28	−60 4 30.45	−17.423	− 40
521	α Draconis	3.64	A o p	14 2 42.574	+1.6243	− 83	+64 40 18.22	−17.222	+ 16

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ′ ″	″	
519	[π Hydrae]	3.48	K 0	14 2 50.074	+3.4145	+ 30	−26 23 4.95	−17.386	− 153
520	ϑ Centauri	2.26	K 0	14 3 1.489	+3.5268	− 439	−36 3 57.51	−17.755	− 531
522	*d* Bootis	4.82	F 5	14 7 34.333	+2.7369	− 12	+25 23 4.26	−17.087	− 69
524	4 Ursae min.	5.00	K 0	14 9 3.455	−0.2483	− 112	+77 50 19.95	−16.917	+ 32
523	ϰ Virginis	4.31	K 0	14 9 35.105	+3.1995	+ 4	− 9 59 9.76	−16.790	+ 134
525	ι Virginis	4.16	F 5	14 12 45.597	+3.1448	− 13	− 5 42 20.06	−17.205	− 431
526	α Bootis	0.24	K 0	14 12 49.964	+2.7363	− 775	+19 30 15.76	−18.771	−2001
528	[ι Bootis]	4.78	A 5	14 13 58.276	+2.1251	− 159	+51 39 9.12	−16.630	+ 86
527	λ Bootis	4.26	A 0	14 14 1.693	+2.2814	− 177	+46 22 20.01	−16.561	+ 152
529	[υ Centauri]	4.41	B 5	14 15 58.547	+4.1802	− 47	−56 6 8.49	−16.658	− 39
530	[Circini 10 G.]	5.71	A 2 p	14 19 55.855	+4.9571	− 41	−67 54 54.26	−16.458	− 36
531	ϑ Bootis	4.06	F 8	14 23 5.205	+2.0428	− 255	+52 8 11.78	−16.667	− 405
532	[52 Hydrae]	5.00	B 8	14 24 32.100	+3.5108	− 28	−29 12 50.74	−16.219	− 30
533	[φ Virginis]	4.97	K 0	14 25 0.343	+3.0909	− 90	− 1 57 3.66	−16.171	− 7
534	ρ Bootis	3.78	K 0	14 29 9.503	+2.5859	− 76	+30 38 33.65	−15.834	+ 113
535	γ Bootis	3.00	F 0	14 29 34.936	+2.4164	− 93	+38 34 42.90	−15.780	+ 144
536	[Grb 2125]	6.18	F 0	14 30 1.788	+1.6293	− 58	+60 29 53.81	−15.882	+ 18
537	η Centauri	2.65	B 3 p + A 2 p	14 31 33.618	+3.8054	− 36	−41 53 11.95	−15.855	− 36
538	*α Centauri	0.33 1.70	G 0 K 5	14 35 22.359	+4.0704	−4888	−60 34 50.63	−14.905	+ 707
540	[33 Bootis]	5.39	A 0	14 36 31.798	+2.2326	− 67	+44 40 16.70	−15.573	− 26
539	[α Circini]	3.41	F 0	14 37 28.141	+4.8346	− 320	−64 42 23.76	−15.735	− 239
541	[α Lupi]	2.89	B 2	14 37 47.691	+3.9854	− 20	−47 7 24.59	−15.514	− 36
543	ζ Bootis med.	4.83 4.43	A 2	14 38 11.230	+2.8647	+ 37	+13 59 35.46	−15.482	− 27
545	μ Virginis	3.95	F 5	14 39 47.386	+3.1609	+ 69	− 5 23 23.30	−15.693	− 326
544	[c^1 Centauri]	4.13	K 0	14 39 51.413	+3.6658	− 61	−34 54 29.03	−15.560	− 198
542	α Apodis	3.81	K 5	14 40 3.509	+7.4003	− 56	−78 47 2.65	−15.385	− 35
546	[*b* Lupi]	5.20	K 0	14 42 40.264	+4.1901	− 24	−52 7 21.12	−15.296	− 92
547	109 Virginis	3.76	A 0	14 43 6.748	+3.0328	− 75	+ 2 9 10.59	−15.217	− 39
548	α Librae	2.90	A 3	14 47 26.641	+3.3174	− 77	−15 47 7.17	−15.002	− 74
549	Grb 2164	5.67	K 2	14 49 51.812	+1.5217	− 170	+59 32 42.87	−14.657	+ 129
550	β Ursae min.	2.24	K 5	14 50 51.898	−0.1833	− 78	+74 24 31.91	−14.720	+ 7
551	Pi XIV, 221	5.77	A 0	14 53 17.584	+2.8316	− 10	+14 41 44.23	−14.600	− 18
552	β Lupi	2.81	B 2 p	14 54 27.583	+3.9241	− 51	−42 53 8.74	−14.572	− 60
553	[ϰ Centauri]	3.35	B 3	14 55 7.107	+3.8992	− 21	−41 51 24.55	−14.505	− 33
554	[2 H. Urs. min.]	4.86	M b	14 56 35.379	+0.9502	− 147	+66 10 44.76	−14.349	+ 34
555	β Bootis	3.63	G 5	14 59 36.633	+2.2600	− 36	+40 38 2.66	−14.240	− 43
556	γ Scorpii	3.41	M b	15 0 26.135	+3.5096	− 57	−25 2 22.91	−14.202	− 55
557	ψ Bootis	4.67	K 0	15 1 47.320	+2.5708	− 131	+27 11 17.90	−14.077	− 15
558	ζ Lupi	3.50	K 0	15 7 49.004	+4.3036	− 133	−51 51 53.09	−13.754	− 73
559	[ι Librae]	4.66	A 0 p	15 8 40.935	+3.4180	− 32	−19 33 30.41	−13.674	− 47

Nr. 538. Schwerpunkt des Systems. Abstand vom Schwerpunkt nach den Elementen von Lohse in den Publ. d. Astrophys. Obs. Potsdam Nr. 58:

heller Stern: 1938.0 $\Delta\alpha = +0.^{s}117$ $\Delta\delta = -2.''20$
1939.0 $= +0.083$ $= -2.56$

Mittlere Sternörter 1938.0

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″001
		m		h m s	s		° ′ ″	″	
562	[3 Serpentis]	5.44	K 0	15 12 6.338	+2.9819	− 12	+ 5 10 5.70	−13.412	− 7
561	[β Circini]	4.16	A 3	15 12 38.562	+4.6892	−130	−58 34 17.09	−13.519	− 149
563	δ Bootis	3.54	K 0	15 13 0.196	+2.4193	+ 73	+33 32 42.26	−13.468	− 121
560	γ Triang. austr.	3.06	A 0	15 13 5.540	+5.5885	−101	−68 27 9.14	−13.378	− 37
564	β Librae	2.74	B 8	15 13 40.051	+3.2277	− 64	− 9 9 19.66	−13.330	− 27
565	1 H. Urs. min.	5.23	G 0	15 13 55.156	+0.6866	+387	+67 34 54.61	−13.681	− 395
566	φ¹ Lupi	3.59	K 5	15 17 51.843	+3.8037	− 82	−36 2 16.72	−13.121	− 95
569	γ Ursae min.	3.14	A 2	15 20 48.701	−0.1002	− 32	+72 3 16.54	−12.813	+ 16
568	μ Bootis	4.47 6.66	F 0 K 0	15 22 8.865	+2.2665	−123	+37 35 37.01	−12.659	+ 80
570	[τ¹ Serpentis]	5.46	M a	15 22 54.790	+2.7823	− 11	+15 38 41.01	−12.711	− 24
571	ι Draconis	3.47	K 0	15 23 32.874	+1.3345	− 5	+59 10 57.64	−12.630	+ 14
567	[κ¹ Apodis]	5.65	B 5 p	15 24 42.735	+6.5168	+ 6	−73 10 37.47	−12.603	− 37
572	β Coron. bor.	3.72	F 0 p	15 25 16.361	+2.4741	−131	+29 19 5.89	−12.452	+ 76
573	ν¹ Bootis	5.15	K 5	15 28 42.112	+2.1552	+ 10	+41 2 36.41	−12.305	− 13
576	[ϑ Coron. bor.]	4.17	B 5	15 30 25.730	+2.4190	− 17	+31 34 1.79	−12.198	− 26
575	γ Lupi	2.95	B 3	15 30 59.980	+3.9938	− 26	−40 57 36.08	−12.172	− 39
574	[ε Triang. austr.]	4.11	K 0	15 31 1.194	+5.4777	+ 29	−66 6 39.06	−12.213	− 82
577	γ Librae	4.02	K 0	15 32 3.260	+3.3551	+ 43	−14 35 2.78	−12.056	+ 3
578	α Coron. bor.	2.31	A 0	15 32 3.736	+2.5403	+ 93	+26 55 19.87	−12.156	− 98
579	[3 H. Scorpii]	3.78	K 2	15 33 15.263	+3.6400	− 11	−27 55 52.66	−11.985	− 11
580	[φ Bootis]	5.41	G 5	15 35 35.991	+2.1550	+ 58	+40 33 15.39	−11.758	+ 52
581	[γ Coron. bor.]	3.93	A 0	15 40 8.333	+2.5199	− 74	+26 29 26.84	−11.453	+ 34
582	α Serpentis	2.75	K 0	15 41 12.742	+2.9547	+ 91	+ 6 37 9.87	−11.367	+ 42
583	β Serpentis	3.74	A 2	15 43 19.520	+2.7691	+ 51	+15 36 52.39	−11.312	− 54
587	[12 H. Dracon.]	5.13	A 2	15 45 42.975	+0.9131	+ 55	+62 47 26.47	−11.145	− 61
584	κ Serpentis	4.28	K 5	15 45 56.894	+2.7008	− 31	+18 19 54.25	−11.165	− 98
590	ζ Ursae min.	4.34	A 2	15 46 13.764	−2.1605	+ 60	+77 59 10.09	−11.047	− 1
585	μ Serpentis	3.63	A 0	15 46 22.920	+3.1303	− 59	− 3 14 30.82	−11.067	− 32
586	[χ Lupi]	4.11	B 9	15 47 0.722	+3.8095	− 15	−33 26 23.20	−11.019	− 30
588	ε Serpentis	3.75	A 2	15 47 43.411	+2.9901	+ 84	+ 4 39 46.90	−10.877	+ 60
589	β Triang. austr.	3.04	F 0	15 49 39.662	+5.2782	−278	−63 14 29.38	−11.202	− 407
591	[γ Serpentis]	3.86	F 5	15 53 35.276	+2.7710	+214	+15 51 45.35	−11.798	−1294
593	ε Coron. bor.	4.22	K 0	15 55 1.171	+2.4834	− 61	+27 3 22.36	−10.465	− 69
592	[π Scorpii]	3.00	B 2	15 55 5.737	+3.6273	− 15	−25 56 14.43	−10.428	− 37
595	[Grb 2296]	4.96	A 5	15 56 18.967	+1.4218	−187	+54 55 27.46	−10.189	+ 110
594	δ Scorpii	2.54	B 0	15 56 39.785	+3.5463	− 8	−22 26 49.01	−10.310	− 36
598	ϑ Draconis	4.11	F 8	16 0 43.485	+1.1237	−403	+58 43 49.27	− 9.628	+ 339
597	β Scorpii	2.90 5.06	B 1	16 1 49.662	+3.4871	− 7	−19 38 14.48	− 9.910	− 27
596	[δ Normae]	4.84	A 3 p	16 2 6.015	+4.2361	− 5	−45 0 25.50	− 9.856	+ 6
599	[ϑ Lupi]	4.33	B 3	16 2 30.803	+3.9361	− 29	−36 38 6.94	− 9.872	− 41

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		m		h m s	s		° ′ ″	″	
601	[φ Herculis]	4.26	B 9 p	16 6 48.916	+1.8902	− 23	+45 5 47.38	−9.470	+ 31
600	[ϰ Normae]	5.09	K 0	16 8 34.440	+4.7235	− 42	−54 28 21.44	−9.431	− 65
602	[δ Triang. austr.]	4.03	G 0	16 9 46.652	+5.4530	+ 8	−63 31 46.68	−9.298	− 26
603	δ Ophiuchi	3.03	M a	16 11 5.653	+3.1435	− 30	− 3 32 10.27	−9.320	−150
606	19 Ursae min.	5.51	B 8	16 12 33.906	−1.7208	− 4	+76 2 3.91	−9.043	+ 12
605	ε Ophiuchi	3.34	K 0	16 15 2.294	+3.1736	+ 53	− 4 32 34.57	−8.831	+ 31
604	γ^2 Normae	4.14	K 0	16 15 11.380	+4.4832	−190	−50 0 19.45	−8.912	− 61
607	[σ Scorpii]	3.08	B 1	16 17 24.924	+3.6451	− 11	−25 26 44.95	−8.708	− 33
608	τ Herculis	3.91	B 5	16 17 52.563	+1.8033	− 9	+46 27 36.28	−8.606	+ 32
609	γ Herculis	3.79	F 0	16 19 11.020	+2.6461	− 36	+19 17 50.84	−8.495	+ 40
612	[η Ursae min.]	5.04	F 0	16 19 17.499	−1.7631	−221	+75 53 56.48	−8.272	+256
610	[ζ Triang. austr.]	4.93	G 0	16 21 46.271	+6.4393	+366	−69 56 51.43	−8.246	+ 84
613	[ω Herculis]	4.53	A 0 p	16 22 33.194	+2.7684	+ 28	+14 10 28.41	−8.336	− 68
614	[Grb 2343]	5.66	A 2	16 23 3.873	+1.3123	+ 19	+55 20 43.48	−8.209	+ 18
615	η Draconis	2.89	G 5	16 23 8.812	+0.8112	− 28	+61 39 15.02	−8.160	+ 61
611	γ Apodis	3.90	K 0	16 23 52.699	+9.1768	−384	−78 45 42.50	−8.234	− 72
616	α Scorpii	1.22	M a + A 3	16 25 36.108	+3.6774	− 7	−26 17 46.18	−8.053	− 28
618	β Herculis	2.81	K 0	16 27 33.219	+2.5789	− 69	+21 37 24.25	−7.888	− 21
617	[λ Ophiuchi]	3.85	A 0	16 27 47.067	+3.0253	− 23	+ 2 7 4.72	−7.939	− 90
619	*A* Draconis	4.98	B 8 p	16 28 5.683	−0.1207	− 51	+68 54 8.35	−7.789	+ 35
620	[τ Scorpii]	2.91	B 0	16 32 1.099	+3.7332	− 11	−28 5 21.19	−7.540	− 33
621	σ Herculis	4.25	A 0	16 32 6.220	+1.9344	− 6	+42 33 49.99	−7.462	+ 38
623	[Grb 2373]	6.39	G 5	16 33 16.788	−2.5934	−323	+77 34 15.83	−7.131	+274
622	ζ Ophiuchi	2.70	B 0	16 33 44.546	+3.3030	+ 9	−10 26 35.14	−7.345	+ 22
624	[24 Scorpii]	5.04	K 0	16 37 59.041	+3.4688	− 18	−17 37 25.60	−7.023	− 3
626	η Herculis	3.61	K 0	16 40 46.192	+2.0570	+ 35	+39 2 21.11	−6.876	− 84
625	α Triang. austr.	1.88	K 2	16 42 4.784	+6.3439	+ 33	−68 55 0.80	−6.733	− 49
627	Grb 2377	4.88	F 0	16 44 7.136	+1.1380	+ 28	+56 53 31.11	−6.458	+ 58
628	ε Scorpii	2.36	K 0	16 46 8.543	+3.8838	−501	−34 10 56.84	−6.604	−256
629	49 Herculis	6.41	A 0 p	16 49 15.429	+2.7313	+ 12	+15 4 36.41	−6.096	− 6
630	ζ^2 Scorpii	3.75	K 5	16 50 12.797	+4.2179	−133	−42 15 25.62	−6.248	−238
631	ζ Arae	3.06	K 5	16 53 28.846	+4.9608	− 29	−55 53 40.49	−5.784	− 48
632	[ε^1 Arae]	4.15	K 2	16 54 37.979	+4.7769	− 19	−53 4 3.48	−5.648	− 8
633	ϰ Ophiuchi	3.42	K 0	16 54 43.935	+2.8393	−198	+ 9 28 11.90	−5.645	− 13
634	ε Herculis	3.92	A 0	16 57 55.007	+2.2955	− 35	+31 0 59.47	−5.340	+ 24
635	[60 Herculis]	4.91	A 3	17 2 30.118	+2.7818	+ 34	+12 49 28.31	−4.991	− 15
636	[Grb 2415]	6.27	A 2	17 5 45.337	+1.9569	− 29	+40 35 46.20	−4.728	− 28
637	η Ophiuchi	2.63	A 2	17 6 49.193	+3.4396	+ 23	−15 38 59.49	−4.519	+ 90
638	[η Scorpii]	3.44	F 2	17 7 42.484	+4.2954	+ 17	−43 9 34.37	−4.832	−298
639	ζ Draconis	3.22	B 5	17 8 36.190	+0.1726	− 29	+65 47 27.21	−4.436	+ 22

Mittlere Sternörter 1938.0

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		m		h m s	s		° ′ ″	″	
640	α Herculis	3.48 5.39	M b	17 11 49.159	+2.7353	− 8	+14 27 34.36	−4.154	+ 29
641	δ Herculis	3.16	A 2	17 12 29.054	+2.4643	− 15	+24 54 39.85	−4.284	−159
643	π Herculis	3.36	K 5	17 12 53.216	+2.0896	− 21	+36 52 40.64	−4.090	+ 1
642	[ι Apodis]	5.60	B 8	17 15 10.092	+6.6849	− 14	−70 3 40.32	−3.923	− 27
644	ϑ Ophiuchi	3.37	B 3	17 18 11.948	+3.6834	− 7	−24 56 22.02	−3.660	− 25
645	β Arae	2.80	K 2	17 20 8.422	+4.9848	− 14	−55 28 25.62	−3.510	− 42
647	[27 H. Ophiuchi]	4.61	F 0	17 23 20.440	+3.1834	− 58	− 5 2 0.43	−3.243	− 51
646	[d Ophiuchi]	4.37	F 5	17 23 23.530	+3.8296	+ 6	−29 48 46.06	−3.333	−145
650	[x Herculis]	5.81	A 2	17 25 5.594	+1.5903	+ 2	+48 18 39.74	−3.060	− 19
648	δ Arae	3.79	B 8	17 25 29.796	+5.4140	− 70	−60 38 4.59	−3.107	−101
649	[υ Scorpii]	2.80	B 3	17 26 32.592	+4.0759	− 24	−37 14 54.18	−2.955	− 39
651	α Arae	2.97	B 3 p	17 27 2.679	+4.6358	− 38	−49 49 46.06	−2.966	− 94
653	β Draconis	2.99	G 0	17 29 1.854	+1.3556	− 15	+52 20 47.48	−2.691	+ 10
652	λ Scorpii	1.71	B 2	17 29 23.685	+4.0718	− 14	−37 3 37.88	−2.701	− 32
655	[ν¹ Draconis]	4.98	A 5	17 30 57.270	+1.1816	+176	+55 13 33.35	−2.482	+ 51
657	[ν² Draconis]	4.95	A 5	17 31 2.707	+1.1829	+181	+55 12 52.25	−2.473	+ 52
656	α Ophiuchi	2.14	A 5	17 32 3.318	+2.7845	+ 80	+12 36 13.19	−2.671	−233
659	[f Draconis]	5.21	K 0	17 32 12.486	−0.2423	− 33	+68 10 28.68	−2.291	+134
654	ϑ Scorpii	2.04	F 0	17 32 51.586	+4.3087	0	−42 57 38.22	−2.386	− 18
658	ξ Serpentis	3.64	A 5	17 34 2.076	+3.4344	− 34	−15 21 40.60	−2.331	− 65
664	ω Draconis	4.87	F 5	17 37 18.688	−0.3519	+ 9	+68 47 12.47	−1.658	+323
663	ι Herculis	3.79	B 3	17 37 42.831	+1.6935	− 5	+46 2 17.86	−1.949	− 4
660	[κ Scorpii]	2.51	B 2	17 38 11.733	+4.1488	− 15	−38 59 59.86	−1.930	− 26
662	[μ Arae]	5.26	G 5	17 39 13.086	+4.7615	− 28	−51 48 12.31	−2.023	−208
661	η Pavonis	3.58	K 0	17 39 38.525	+5.8861	− 22	−64 41 48.55	−1.834	− 56
665	β Ophiuchi	2.94	K 0	17 40 24.524	+2.9634	− 28	+ 4 35 29.76	−1.558	+153
670	ψ Draconis	4.90 6.07	F 5	17 43 2.169	−1.0692	+ 33	+72 10 47.30	−1.749	−267
666	[ι¹ Scorpii]	3.14	F 5 p	17 43 14.712	+4.1944	− 10	−40 6 17.54	−1.467	− 3
667	μ Herculis	3.48	G 5	17 44 1.836	+2.3475	−240	+27 45 20.53	−2.147	−751
668	[γ Ophiuchi]	3.74	A 0	17 44 46.980	+3.0079	− 16	+ 2 43 44.53	−1.407	− 77
669	[G Scorpii]	3.25	K 2	17 45 38.169	+4.0831	+ 41	−37 1 31.93	−1.229	+ 26
675	35 Draconis	5.04	F 5	17 52 13.283	−2.6878	+110	+76 58 20.29	−0.439	+241
671	ξ Draconis	3.90	K 0	17 52 27.387	+1.0378	+120	+56 52 54.50	−0.583	+ 77
672	ϑ Herculis	3.99	K 0	17 54 7.568	+2.0574	+ 4	+37 15 27.57	−0.509	+ 5
676	γ Draconis	2.42	K 5	17 55 9.948	+1.3930	− 9	+51 29 43.52	−0.445	− 22
674	[ξ Herculis]	3.82	K 0	17 55 21.305	+2.3314	+ 66	+29 15 11.63	−0.432	− 25
673	ν Ophiuchi	3.50	K 0	17 55 36.736	+3.3023	− 7	− 9 46 3.45	−0.501	−118
677	67 Ophiuchi	3.92	B 5 p	17 57 32.353	+3.0046	0	+ 2 55 58.75	−0.228	− 13
679	γ Sagittarii	3.07	K 0	18 1 49.425	+3.8531	− 47	−30 25 36.53	−0.035	−194
678	[Apodis 66 G.]	5.69	K 5	18 2 34.904	+8.3869	− 42	−75 53 47.32	−0.044	−270

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0s.0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		m		h m s	s		° ′ ″	″	
680	72 Ophiuchi	3.73	A 3	18 4 24.578	+2.8440	− 42	+ 9 33 12.82	+0.464	+ 78
681	o Herculis	3.83	A 0	18 5 7.411	+2.3403	+ 2	+28 45 9.45	+0.448	0
682	μ Sagittarii	4.01	B 8 p	18 10 3.286	+3.5873	− 3	−21 4 36.80	+0.876	− 3
683	[η Sagittarii]	3.16	M b	18 13 25.843	+4.0586	− 117	−36 46 55.87	+1.011	−163
685	[36 Draconis]	5.03	F 5	18 13 32.384	+0.3452	+ 533	+64 22 33.77	+1.214	+ 31
684	[Grb 2533]	5.42	B 5	18 13 43.017	+1.8657	− 6	+42 8 13.62	+1.192	− 7
687	[δ Sagittarii]	2.84	K 0	18 17 1.476	+3.8407	+ 27	−29 51 22.81	+1.456	− 32
686	[ξ Pavonis]	4.25	K 2	18 17 30.722	+5.5268	− 26	−61 31 27.58	+1.547	+ 17
688	η Serpentis	3.42	K 0	18 18 6.058	+3.1038	− 372	− 2 54 59.41	+0.882	−699
689	ε Sagittarii	1.95	A 0	18 20 3.393	+3.9820	− 30	−34 24 56.94	+1.625	−127
690	109 Herculis	3.92	K 0	18 21 3.326	+2.5565	+ 140	+21 44 24.14	+1.582	−257
693	[φ Draconis]	4.24	A 0 p	18 21 38.912	−0.8600	− 17	+71 18 18.58	+1.923	+ 33
695	χ Draconis	3.69	F 8	18 22 10.576	−1.0815	+1172	+72 42 23.09	+1.575	−361
691	α Telescopii	3.76	B 3	18 22 22.581	+4.4482	− 21	−46 0 16.42	+1.906	− 48
694	*b* Draconis	4.85	A 2	18 23 0.327	+0.8763	− 45	+58 45 51.31	+2.067	+ 58
692	[λ Sagittarii]	2.94	K 0	18 24 8.635	+3.7020	− 37	−25 27 28.03	+1.920	−188
696	[2 H. Scuti]	4.73	A 3	18 25 39.800	+3.4188	− 3	−14 36 24.88	+2.242	+ 2
697	[ϑ Coron. austr.]	4.69	G 5	18 29 4.505	+4.2831	+ 15	−42 21 33.12	+2.512	− 24
700	[Grb 2655]	5.84	K 0	18 32 45.315	−2.8938	− 10	+77 30 0.12	+2.852	− 3
699	α Lyrae	0.14	A 0	18 34 50.341	+2.0315	+ 176	+38 43 29.51	+3.317	+281
698	ζ Pavonis	4.10	K 0	18 35 47.953	+7.0123	− 23	−71 29 5.04	+2.941	−178
701	[Grb 2640]	6.00	A 3	18 36 1.642	+0.1878	+ 18	+65 25 59.14	+3.222	+ 84
702	[5 H. Scuti]	5.09	G 5	18 40 8.659	+3.2671	+ 13	− 8 20 16.90	+3.502	+ 9
703	110 Herculis	4.26	F 5	18 42 59.565	+2.5814	− 12	+20 29 8.15	+3.398	−340
704	λ Pavonis	4.42	B 2	18 46 28.601	+5.5594	− 25	−62 15 40.65	+4.009	− 28
705	*β Lyrae	var.	B 8 p + B 2 p	18 47 47.435	+2.2150	+ 3	+33 17 22.64	+4.148	− 2
707	o Draconis	4.78	K 0	18 50 17.277	+0.8860	+ 105	+59 18 43.50	+4.388	+ 25
706	σ Sagittarii	2.14	B 3	18 51 25.276	+3.7195	+ 4	−26 22 32.28	+4.397	− 63
709	ϑ Serpent. pr.	4.50	A 5	18 53 8.229	+2.9822	+ 29	+ 4 7 16.92	+4.634	+ 28
711	**R* Lyrae	var.	M b	18 53 26.938	+1.8263	+ 28	+43 51 48.22	+4.708	+ 76
708	λ Telescopii	5.03	B 9	18 53 30.347	+4.7999	+ 3	−53 1 17.85	+4.652	+ 14
710	[ξ Sagittarii]	3.61	K 0	18 54 1.894	+3.5785	+ 18	−21 11 23.72	+4.666	− 16
714	[υ Draconis]	4.91	K 0	18 55 9.858	−0.7319	+ 103	+71 12 52.66	+4.819	+ 41
713	γ Lyrae	3.30	A 0 p	18 56 37.423	+2.2439	− 4	+32 36 12.04	+4.900	− 2
712	[ε Aquilae]	4.21	K 0	18 56 48.461	+2.7222	− 42	+14 58 57.51	+4.837	− 80
715	[ζ Sagittarii]	2.71	A 2	18 58 40.057	+3.8164	− 21	−29 58 13.82	+5.077	+ 2
716	ζ Aquilae	3.02	A 0	19 2 33.597	+2.7570	− 7	+13 46 11.47	+5.303	−101
717	λ Aquilae	3.55	B 9	19 2 57.524	+3.1835	− 16	− 4 58 37.29	+5.351	− 87
719	[ι Lyrae]	5.13	B 5	19 5 5.340	+2.1408	− 3	+36 0 6.77	+5.613	− 3
718	α Coron. austr.	4.12	A 2	19 5 15.323	+4.0811	+ 60	−38 0 11.09	+5.521	−109

Nr. 705. Größe: Max. 3.4, Min. 4.1. Nr. 711. Größe: Max. 4.0, Min. 4.7, Größe in Harvard 50 = 4.32.

Mittlere Sternörter 1938.0

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.''001
		m		h m s	s		° ' "	"	
720	π Sagittarii	3.02	F 2	19 6 4.640	+3.5675	− 5	−21 7 25.96	+ 5.664	− 35
721	[Pavonis 60 G.]	5.57	A 2	19 10 58.720	+6.0375	− 7	−66 46 14.99	+ 6.088	− 21
723	δ Draconis	3.24	K o	19 12 32.769	+0.0161	+ 166	+67 33 8.65	+ 6.327	+ 88
722	[*d* Sagittarii]	5.03	K o	19 14 0.499	+3.5097	− 12	−19 3 53.37	+ 6.352	− 9
724	ϑ Lyrae	4.46	K o	19 14 12.919	+2.0818	− 7	+38 1 19.96	+ 6.377	− 1
725	ω Aquilae	5.14	A 5	19 14 54.362	+2.8157	− 3	+11 28 55.99	+ 6.448	+ 13
726	ϰ Cygni	3.98	K o	19 15 40.250	+1.3869	+ 69	+53 15 11.88	+ 6.618	+ 120
729	τ Draconis	4.63	K o	19 16 45.402	−1.1504	− 327	+73 14 27.38	+ 6.697	+ 109
727	[υ Sagittarii]	4.58	B 8 p + F 2 p	19 18 10.657	+3.4359	0	−16 4 22.50	+ 6.703	− 2
728	α Sagittarii	4.11	B 8	19 19 35.586	+4.1569	+ 18	−40 44 3.84	+ 6.704	− 118
730	δ Aquilae	3.44	F o	19 22 22.339	+3.0245	+ 167	+ 2 59 22.94	+ 7.132	+ 82
731	[Sagittar. 186 G.]	5.68	B 9	19 23 1.493	+3.7913	+ 7	−29 52 3.11	+ 7.056	− 47
734	[Grb 2900]	6.00	A 2	19 25 28.935	−3.6183	+ 97	+79 28 48.66	+ 7.269	− 35
733	ι Cygni	3.94	A 2	19 28 8.601	+1.5127	+ 22	+51 35 48.69	+ 7.645	+ 125
732	*β Cygni	3.24	K o + A o	19 28 13.224	+2.4191	− 2	+27 49 41.61	+ 7.519	− 8
735	[ι Telescopii]	5.02	K o	19 30 37.171	+4.4498	− 41	−48 14 5.16	+ 7.681	− 40
736	*h* Sagittarii	4.66	B 9	19 32 56.161	+3.6508	+ 46	−25 1 19.59	+ 7.885	− 22
737	[ϰ Aquilae]	5.04	B o	19 33 33.418	+3.2276	+ 3	− 7 10 0.32	+ 7.957	0
738	ϑ Cygni	4.64	F 5	19 34 46.706	+1.6079	− 29	+50 4 35.64	+ 8.302	+ 247
740	[15 Cygni]	5.02	K o	19 42 2.404	+2.1634	+ 59	+37 12 12.89	+ 8.668	+ 36
739	[ν Telescopii]	5.52	A 5	19 42 57.869	+4.9011	+ 86	−56 30 49.03	+ 8.569	− 136
742	δ Cygni	2.97	A o	19 43 2.253	+1.8756	+ 51	+44 58 42.31	+ 8.750	+ 40
741	γ Aquilae	2.80	K 2	19 43 18.713	+2.8518	+ 9	+10 27 39.17	+ 8.732	0
743	δ Sagittae	3.78	M a + A o	19 44 37.377	+2.6749	+ 4	+18 22 48.39	+ 8.848	+ 13
744	[51 Aquilae]	5.55	F o	19 47 22.202	+3.3010	− 21	−10 55 19.77	+ 9.092	+ 41
745	α Aquilae	0.89	A 5	19 47 45.481	+2.9266	+ 359	+ 8 42 11.68	+ 9.464	+ 384
747	ε Draconis	3.99	K o	19 48 23.578	−0.1992	+ 156	+70 6 35.89	+ 9.160	+ 30
746	*[η Aquilae]	var.	G o p	19 49 18.910	+3.0561	+ 6	+ 0 50 42.36	+ 9.193	− 9
749	β Aquilae	3.90	K o	19 52 16.053	+2.9464	+ 25	+ 6 15 2.13	+ 8.951	− 480
748	ε Pavonis	4.10	A o	19 53 27.184	+6.9523	+ 148	−73 4 36.92	+ 9.390	− 132
750	ψ Cygni	4.80	A 3	19 54 1.637	+1.5509	− 43	+52 16 24.94	+ 9.535	− 31
751	ϑ^1 Sagittarii	4.39	B 3	19 55 42.205	+3.9044	− 12	−35 26 44.56	+ 9.659	− 36
752	γ Sagittae	3.71	K 5	19 55 59.954	+2.6675	+ 43	+19 19 21.15	+ 9.742	+ 24
753	[*c* Sagittarii]	4.60	M b	19 58 50.906	+3.6892	+ 21	−27 53 1.58	+ 9.952	+ 18
755	[ξ Telescopii]	4.86	M a	20 2 38.508	+4.5974	− 44	−53 3 37.00	+10.219	− 2
754	δ Pavonis	3.64	G 5	20 2 39.723	+5.8932	+1965	−66 20 33.73	+ 9.065	−1158
756	ϑ Aquilae	3.37	A o	20 8 6.383	+3.0951	+ 22	− 1 0 24.18	+10.635	+ 6
759	ϰ Cephei	4.40	B 9	20 11 0.715	−2.0057	+ 12	+77 31 32.09	+10.871	+ 27
757	o^1 Cygni sq.	3.95	K o + B 8	20 11 40.754	+1.8892	+ 4	+46 33 8.65	+10.894	+ 1
758	[33 Cygni]	4.32	A 3	20 11 57.462	+1.3949	+ 74	+56 22 38.90	+10.999	+ 85

Nr. 732. Größe und Spektrum beziehen sich auf die hellere Komponente. Die entsprechenden Werte für die schwächere Komponente sind 5.36 und B 9. Nr. 746. Größe: Max. 3.7, Min. 4.5.

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
760	24 Vulpeculae	5.45	K o	20 14 7.890	+2.5671	+ 12	+24 28 44.24	+11.053	— 19
761	α^2 Capricorni	3.77	G 5	20 14 36.972	+3.3285	+ 40	—12 44 17.88	+11.119	+ 11
762	[β Capricorni]	3.25	G o + A o	20 17 31.762	+3.3704	+ 23	—14 58 42.70	+11.325	+ 6
763	[$\varkappa^1$ Sagittarii]	5.64	A o	20 18 15.331	+4.0762	+ 37	—42 14 48.05	+11.275	— 96
765	γ Cygni	2.32	F 8 p	20 20 0.150	+2.1531	+ 4	+40 3 26.30	+11.497	0
764	α Pavonis	2.12	B 3	20 20 45.319	+4.7516	+ 11	—56 56 7.73	+11.466	— 85
766	[ρ Capricorni]	4.96	F o	20 25 19.574	+3.4219	— 14	—18 1 11.76	+11.859	— 16
767	ϑ Cephei	4.28	A 5	20 28 32.686	+1.0079	+ 63	+62 47 6.89	+12.087	— 14
768	ε Delphini	3.98	B 5	20 30 15.051	+2.8659	+ 5	+11 5 28.68	+12.194	— 25
770	73 Draconis	5.18	A 2 p	20 32 20.928	—0.7811	+ 16	+74 44 32.93	+12.352	— 12
769	α Indi	3.21	K o	20 33 12.767	+4.2211	+ 33	—47 30 33.63	+12.484	+ 60
771	β Delphini	3.72	F 5	20 34 38.486	+2.8130	+ 74	+14 22 41.80	+12.485	— 36
772	[κ Delphini]	5.23	G 5	20 36 7.082	+2.9137	+ 212	+ 9 51 59.86	+12.640	+ 19
773	υ Capricorni	5.33	M a	20 36 31.365	+3.4153	— 17	—18 21 29.73	+12.633	— 16
774	α Delphini	3.86	B 8	20 36 45.492	+2.7865	+ 45	+15 41 31.65	+12.659	— 6
777	α Cygni	1.33	A 2 p	20 39 19.061	+2.0452	+ 4	+45 3 28.45	+12.837	— 1
775	β Pavonis	3.60	A 5	20 39 23.734	+5.4173	— 71	—66 25 41.03	+12.845	+ 1
776	[η Indi]	4.70	F o	20 39 29.722	+4.4082	+ 157	—52 8 39.35	+12.777	— 73
778	[δ Delphini]	4.53	A 5	20 40 33.857	+2.8008	— 14	+14 51 3.43	+12.874	— 48
779	[ψ Capricorni]	4.26	F 8	20 42 25.676	+3.5524	— 44	—25 29 42.38	+12.889	— 157
780	ε Cygni	2.64	K o	20 43 42.121	+2.4277	+ 290	+33 44 13.45	+13.458	+ 328
782	[6 H. Cephei]	4.63	G o	20 43 48.825	+1.4890	— 86	+57 21 23.85	+12.903	— 235
783	η Cephei	3.59	K o	20 44 1.906	+1.2213	+ 129	+61 35 50.86	+13.971	+ 819
781	ε Aquarii	3.83	A o	20 44 19.265	+3.2474	+ 17	— 9 43 26.00	+13.143	— 28
784	λ Cygni	4.47	B 5	20 44 59.552	+2.3366	+ 5	+36 15 43.46	+13.215	0
785	β Indi	3.72	K o	20 49 58.621	+4.6928	0	—58 41 22.88	+13.513	— 27
786	32 Vulpeculae	5.24	K 5	20 51 55.012	+2.5568	— 4	+27 49 15.11	+13.666	+ 1
788	ν Cygni	4.04	A o	20 54 51.644	+2.2365	+ 9	+40 55 39.11	+13.834	— 17
787	[α Octantis]	5.24	F 2	20 57 16.446	+7.3014	— 10	—77 15 44.72	+13.648	— 355
789	[11 Aquarii]	6.26	G o	20 57 17.998	+3.1585	+ 23	— 4 58 15.21	+13.872	— 133
790	ζ Microscopii	5.35	F o	20 59 0.557	+3.8345	— 36	—38 52 30.25	+13.990	— 122
792	[ξ Cygni]	3.92	K 5	21 2 40.503	+2.1825	+ 12	+43 40 46.54	+14.335	— 3
791	[*A* Capricorni]	4.60	M a	21 3 30.253	+3.5089	— 30	—25 15 17.96	+14.341	— 47
793	61 Cygni pr.	5.57	K 5	21 4 6.937	+2.6871	+3506	+38 26 36.98	+17.684	+3258
794	ν Aquarii	4.52	K o	21 6 13.143	+3.2683	+ 62	—11 37 25.72	+14.543	— 9
795	Br 2777	5.90	B 9	21 6 46.517	—1.1858	+ 74	+77 52 31.55	+14.622	+ 36
798	[Grb 3415]	5.65	B 2	21 10 13.574	+1.5273	— 6	+59 43 51.73	+14.789	— 2
797	ζ Cygni	3.40	K o	21 10 17.779	+2.5530	— 1	+29 58 18.00	+14.737	— 59
796	[Indi 23 G.]	5.84	A 5	21 11 20.581	+4.2843	— 19	—53 31 17.47	+14.811	— 46
799	[τ Cygni]	3.82	F o	21 12 18.896	+2.3947	+ 136	+37 46 47.86	+15.349	+ 436

Mittlere Sternörter 1938.0

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		m		h m s	s		° ′ ″	″	
800	α Equulei	4.14	F 8 + A 3	21 12 43.505	+2.9990	+ 38	+ 4 59 25.60	+14.850	− 87
801	[4 Pisc. austr.]	4.79	A 0	21 14 10.978	+3.6386	+ 35	−32 25 58.21	+14.996	− 26
802	[ϑ¹ Microscop.]	4.92	A 2 p	21 16 48.182	+3.8410	+ 70	−41 4 21.34	+15.187	+ 14
803	α Cephei	2.60	A 5	21 17 6.057	+1.4322	+ 213	+62 19 20.58	+15.240	+ 50
804	1 Pegasi	4.24	K 0	21 19 13.108	+2.7744	+ 74	+19 32 17.64	+15.371	+ 61
805	γ Pavonis	4.30	F 8	21 21 20.445	+4.9702	+ 127	−65 38 54.25	+16.218	+ 788
806	ζ Capricorni	3.86	G 5 p	21 23 7.855	+3.4260	− 1	−22 40 51.72	+15.552	+ 23
807	[g Cygni]	5.34	K 0	21 27 9.606	+2.2140	+ 48	+46 15 59.14	+15.852	+ 103
809	β Cephei	3.32	B 1	21 27 52.099	+0.7772	+ 20	+70 17 17.78	+15.794	+ 7
808	β Aquarii	3.07	G 0	21 28 17.777	+3.1582	+ 11	− 5 50 41.66	+15.806	− 5
811	74 Cygni	5.09	A 5	21 34 27.721	+2.4044	− 3	+40 8 3.16	+16.148	+ 12
810	ν Octantis	3.74	K 0	21 34 39.337	+6.7079	+ 135	−77 40 2.51	+15.890	− 256
812	[γ Capricorni]	3.80	F 0 p	21 36 39.524	+3.3244	+ 131	−16 56 35.75	+16.234	− 16
813	[13 H. Cephei]	5.64	O e 5	21 37 2.201	+1.8623	+ 7	+57 12 29.32	+16.271	+ 2
817	[11 Cephei]	4.85	K 0	21 41 1.230	+0.8815	+ 234	+71 1 32.39	+16.568	+ 98
815	ε Pegasi	2.54	K 0	21 41 8.436	+2.9463	+ 18	+ 9 35 23.33	+16.475	0
814	[ι Pisc. austr.]	4.35	A 0	21 41 15.503	+3.5745	+ 18	−33 18 34.66	+16.392	− 89
816	[κ Pegasi]	4.27	F 5	21 41 50.168	+2.7164	+ 25	+25 21 33.14	+16.520	+ 10
818	[λ Capricorni]	5.43	A 0	21 43 11.999	+3.2299	+ 20	−11 39 9.92	+16.574	− 4
819	δ Capricorni	2.98	A 5	21 43 37.271	+3.3115	+ 179	−16 24 34.49	+16.305	− 293
821	π² Cygni	4.26	B 3	21 44 30.053	+2.2164	+ 8	+49 1 19.02	+16.638	− 4
820	[ο Indi]	5.50	K 2	21 45 34.304	+5.0876	− 86	−69 55 10.26	+16.673	− 21
822	γ Gruis	3.16	B 8	21 50 10.805	+3.6341	+ 77	−37 39 26.86	+16.895	− 18
823	16 Pegasi	5.05	B 3	21 50 14.380	+2.7295	+ 4	+25 37 57.61	+16.917	+ 1
824	[δ Indi]	4.56	F 0	21 53 42.628	+4.0873	+ 43	−55 17 19.53	+17.048	− 29
826	[20 Pegasi]	5.66	F 2	21 58 4.071	+2.9223	+ 36	+12 49 19.54	+17.219	− 54
825	[ε Indi]	4.74	K 5	21 58 37.935	+4.5950	+4808	−57 2 31.58	+14.725	−2573
827	α Aquarii	3.19	G 0	22 2 36.002	+3.0811	+ 10	− 0 37 18.64	+17.464	− 7
828	ι Aquarii	4.35	B 8	22 3 5.451	+3.2402	+ 24	−14 10 16.46	+17.441	− 51
830	20 Cephei	5.39	K 5	22 3 7.356	+1.8231	+ 22	+62 28 57.73	+17.554	+ 60
831	[ι Pegasi]	3.96	F 5	22 4 7.379	+2.7925	+ 219	+25 2 29.42	+17.558	+ 22
829	α Gruis	2.16	B 5	22 4 20.070	+3.7842	+ 119	−47 15 44.96	+17.374	− 171
832	[μ Pisc. austr.]	4.62	A 2	22 4 46.171	+3.5000	+ 41	−33 17 31.28	+17.522	− 41
833	[27 Pegasi]	5.65	K 0	22 6 28.697	+2.6584	− 42	+32 52 7.65	+17.570	− 65
834	ϑ Pegasi	3.70	A 2	22 7 4.340	+3.0262	+ 184	+ 5 53 31.49	+17.690	+ 31
835	π Pegasi	4.38	F 5	22 7 13.895	+2.6642	− 9	+32 52 23.96	+17.647	− 19
837	24 Cephei	4.99	G 5	22 8 37.172	+1.1535	+ 54	+72 2 7.97	+17.731	+ 8
836	ζ Cephei	3.62	K 0	22 8 42.001	+2.0803	+ 14	+57 53 42.34	+17.732	+ 6
838	[λ Pisc. austr.]	5.40	B 9	22 10 48.176	+3.4015	+ 16	−28 4 30.25	+17.810	− 1
839	[ε Octantis]	5.11	M b	22 13 10.819	+6.7739	+ 137	−80 44 59.13	+17.865	− 40

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Verände-rung	Jährl. Eigen-bew. in 0s0001	Dekl. 1938.0	Jährl. Verände-rung	Jährl. Eigen-bew. in 0".001
		m		h m s	s		° ′ ″	″	
840	ϑ Aquarii	4.32	K o	22 13 33.810	+3.1658	+ 76	− 8 5 33.86	+17.902	− 19
841	α Tucanae	2.91	K 2	22 14 16.274	+4.1176	− 98	−60 34 10.73	+17.899	− 49
842	γ Aquarii	3.97	A o	22 18 27.265	+3.0984	+ 83	− 1 42 1.89	+18.115	+ 7
843	[31 Pegasi]	4.93	B 3 p	22 18 27.901	+2.9523	− 1	+11 53 31.67	+18.117	+ 9
844	3 Lacertae	4.58	K o	22 21 7.086	+2.3584	− 15	+51 55 4.10	+18.016	−191
845	[ν Gruis]	5.48	K o	22 25 1.516	+3.5181	+ 24	−39 26 46.43	+18.185	−162
846	[δ¹ Gruis]	4.02	G 5	22 25 34.261	+3.5881	+ 17	−43 48 47.27	+18.358	− 8
847	*[δ Cephei]	var.	verän.	22 26 51.880	+2.2262	+ 17	+58 5 50.48	+18.413	+ 2
848	7 Lacertae	3.85	A o	22 28 43.999	+2.4710	+ 147	+49 57 47.48	+18.492	+ 17
849	[υ Aquarii]	5.29	F 5	22 31 18.341	+3.2824	+ 155	−21 1 35.29	+18.418	− 144
850	η Aquarii	4.13	B 8	22 32 10.254	+3.0827	+ 59	− 0 26 15.77	+18.534	− 55
851	[31 Cephei]	5.22	F o	22 34 14.218	+1.4812	+ 384	+73 19 15.67	+18.680	+ 23
853	[30 Cephei]	5.21	A 2	22 36 26.848	+2.1274	+ 1	+63 15 42.41	+18.705	− 22
852	10 Lacertae	4.91	Oe 5	22 36 28.558	+2.6915	+ 4	+38 43 37.34	+18.721	− 6
854	[ε Pisc. austr.]	4.22	B 8	22 37 13.787	+3.3186	+ 12	−27 22 3.19	+18.753	+ 2
855	ζ Pegasi	3.61	B 8	22 38 22.141	+2.9920	+ 53	+10 30 25.56	+18.773	− 13
856	β Gruis	2.24	M b	22 38 58.332	+3.5845	+ 117	−47 12 35.11	+18.779	− 25
857	η Pegasi	3.10	G o	22 40 5.584	+2.8118	+ 12	+29 53 46.80	+18.805	− 33
858	[13 Lacertae]	5.24	K o	22 41 19.333	+2.6746	− 6	+41 29 36.15	+18.879	+ 5
859	λ Pegasi	4.14	K o	22 43 32.546	+2.8892	+ 41	+23 14 19.83	+18.929	− 10
860	ε Gruis	3.69	A 2	22 44 49.098	+3.6267	+ 96	−51 38 36.84	+18.902	− 73
861	[τ Aquarii]	4.21	K 5	22 46 18.665	+3.1765	− 12	−13 55 13.27	+18.984	− 33
862	[μ Pegasi]	3.67	K o	22 47 0.510	+2.8953	+ 109	+24 16 25.38	+18.995	− 41
863	ι Cephei	3.68	K o	22 47 28.020	+2.1330	− 115	+65 52 26.30	+18.925	−123
864	λ Aquarii	3.84	M a	22 49 22.861	+3.1298	+ 5	− 7 54 36.14	+19.138	+ 38
865	ρ Indi	6.14	M a	22 50 22.344	+4.1859	− 101	−70 24 20.28	+19.188	+ 62
866	δ Aquarii	3.51	A 2	22 51 21.700	+3.1839	− 33	−16 9 3.58	+19.132	− 19
867	α Pisc. austr.	1.29	A 3	22 54 13.690	+3.3157	+ 247	−29 57 4.51	+19.065	−159
868	[ζ Gruis]	4.18	G 5	22 57 13.773	+3.5462	− 80	−53 5 13.78	+19.281	− 16
869	o Androm.	3.63	B 5 + A 2 p	22 59 3.843	+2.7594	+ 25	+41 59 32.06	+19.327	− 13
870	β Pegasi	2.61	M a	23 0 45.940	+2.9079	+ 145	+27 44 45.82	+19.515	+138
871	α Pegasi	2.57	A o	23 1 40.236	+2.9878	+ 41	+14 52 16.46	+19.357	− 41
872	ϑ Gruis	4.35	F 5	23 3 23.557	+3.3818	− 52	−43 51 21.51	+19.398	− 38
874	π Cephei	4.56	G 5	23 5 55.188	+1.9058	+ 29	+75 3 7.76	+19.463	− 25
873	c² Aquarii	3.80	K o	23 6 8.589	+3.1989	+ 32	−21 30 33.54	+19.529	+ 36
875	Br 3077	5.65	K 2	23 10 17.355	+2.8867	+2535	+56 49 32.59	+19.870	+296
876	[Tucanae 25 G.]	5.69	G o	23 13 14.818	+3.6125	+ 231	−62 20 23.67	+19.575	− 53
877	γ Tucanae	4.10	F 2	23 13 49.285	+3.5048	− 59	−58 34 33.59	+19.720	+ 82
878	[γ Piscium]	3.85	K o	23 13 57.032	+3.1096	+ 503	+ 2 56 35.28	+19.659	+ 18
879	γ Sculptoris	4.51	K o	23 15 28.815	+3.2407	+ 10	−32 52 12.47	+19.599	− 68

Nr. 847. Größe: Max. 3.7, Min. 4.6; Spektrum wechselt von F 5 bis G o.

Mittlere Sternörter 1938.0

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″.001
		m		h m s	s		° ′ ″	″	
880	τ Pegasi	4.65	A 5	23 17 33.916	+2.9687	+ 21	+23 24 2.03	+19.688	− 13
882	4 Cassiopeiae	5.20	K 5	23 22 4.459	+2.6618	+ 17	+61 56 31.83	+19.760	− 10
881	[υ Pegasi]	4.57	G 0	23 22 16.915	+2.9936	+138	+23 3 44.86	+19.808	+ 35
883	[ο Gruis]	5.54	F 0	23 23 8.725	+3.3573	− 4	−53 3 54.75	+19.904	+119
884	ϰ Piscium	4.94	A 2 p	23 23 45.232	+3.0753	+ 56	+ 0 54 57.31	+19.701	− 93
885	70 Pegasi	4.67	K 0	23 26 1.025	+3.0334	+ 38	+12 25 5.50	+19.851	+ 28
886	[β Sculptoris]	4.46	B 9	23 29 39.061	+3.2182	+ 65	−38 9 41.60	+19.882	+ 14
887	[72 Pegasi]	5.21	K 2	23 30 52.384	+2.9754	+ 40	+30 58 58.68	+19.870	− 12
888	[Aquarii 248 G.]	6.51	K 0	23 32 20.205	+3.0946	− 5	− 7 48 27.85	+19.921	+ 23
889	[Phoenicis 11 G.]	4.86	A 2	23 34 31.036	+3.2304	+ 47	−45 50 9.77	+19.883	− 37
890	[λ Androm.]	4.00	K 0	23 34 31.357	+2.9345	+156	+46 7 19.24	+19.497	−423
891	ι Androm.	4.28	B 8	23 35 5.362	+2.9409	+ 27	+42 55 28.45	+19.920	− 5
892	ι Piscium	4.28	F 8	23 36 45.603	+3.0852	+247	+ 5 17 23.88	+19.501	−440
893	γ Cephei	3.42	K 0	23 36 47.182	+2.4556	−185	+77 17 10.69	+20.098	+157
894	ω² Aquarii	4.62	A 0	23 39 30.509	+3.1112	+ 65	−14 53 16.31	+19.901	− 63
895	41 H. Cephei	5.02	A 0	23 44 55.935	+2.8638	+ 23	+67 27 44.13	+20.002	+ 1
896	Lac. δ Sculpt.	4.64	A 0	23 45 41.946	+3.1253	+ 71	−28 28 23.92	+19.900	−105
897	[Aquarii 268 G.]	6.08	K 0	23 47 2.776	+3.0953	+ 86	−10 19 12.92	+20.098	+ 86
898	φ Pegasi	5.23	M a	23 49 19.836	+3.0511	− 8	+18 46 32.85	+19.983	− 39
899	[ρ Cassiopeiae]	4.85	F 8 p	23 51 16.515	+2.9935	− 7	+57 9 16.01	+20.033	+ 4
900	[27 Piscium]	5.07	K 0	23 55 29.918	+3.0711	− 37	− 3 53 59.97	+19.971	− 68
901	[π Phoenicis]	5.14	K 0	23 55 43.295	+3.1092	+ 30	−53 5 33.00	+20.086	+ 46
902	ω Piscium	4.03	F 5	23 56 7.560	+3.0804	+100	+ 6 31 12.16	+19.931	−109
903	ε Tucanae	4.71	B 9	23 56 42.395	+3.1224	+ 64	−65 55 20.02	+20.009	− 33
904	[ϑ Octantis]	4.73	K 0	23 58 25.943	+3.0922	−218	−77 24 28.88	+19.873	−171

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.″001
	Nördliche Polsterne								
		m		h m s	s		° ′ ″	″	
Na	43 H. Cephei	4.52	K 0	0 59 53.61	+ 7.996	+ 76	+85 55 32.41	+19.361	− 2
Nb	α Ursae min.	2.12	F 8	1 41 22.65	+35.014	+159	+88 58 8.25	+18.114	0
Nc	*Grb 750	6.70	F 8	4 16 16.53	+17.989	+ 17	+85 23 19.63	+ 8.797	+ 32
Nd	51 H. Cephei	5.26	M a	7 12 10.43	+28.523	− 52	+87 8 52.17	− 6.243	− 34
Ne	1 H. Dracon.	4.58	K 2	9 28 24.51	+ 8.627	− 6	+81 36 10.68	−15.837	− 20
Nf	30 H. Camel.	5.34	F 2	10 23 41.74	+ 7.388	− 46	+82 52 32.05	−18.268	+ 31
Ng	ε Ursae min.	4.40	G 5	16 52 15.00	− 6.182	+ 7	+82 8 32.40	− 5.833	+ 6
Nh	δ Ursae min.	4.44	A 0	17 52 12.04	−19.473	+ 14	+86 36 44.54	− 0.625	+ 57
Ni	λ Ursae min.	6.55	M b	18 36 43.09	−75.959	−101	+89 2 33.15	+ 3.203	+ 5
Nk	76 Draconis	5.69	A 0	20 47 11.90	− 4.281	+ 16	+82 18 12.12	+13.387	+ 27

Nr. Nc. Größe aus Harvard 54 entnommen.

Südliche Polsterne

Nr.	Name	Größe	Spektrum	AR. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s001	Dekl. 1938.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.″001
		m		h m s	s		° ′ ″	″	
Sa	Octantis 4 G.	5.63	K 0	1 40 46.39	− 3.521	+ 18	−85 5 0.14	+18.171	+ 34
Sb	ξ Mensae	5.85	K 0	5 5 51.36	− 6.874	− 4	−82 33 22.98	+ 4.705	+ 14
Sc	ζ Octantis	5.38	F 0	9 6 4.34	− 8.494	− 94	−85 25 3.52	−14.494	+ 50
Sd	ι Octantis	5.38	K 0	12 48 14.97	+ 6.176	+ 43	−84 47 13.95	−19.576	+ 25
Se	Octantis 20 G.	6.52	A 2	14 55 39.98	+28.168	−185	−87 54 0.95	−14.509	− 71
Sf	Octantis 26 G.	6.13	A 0	16 37 22.06	+22.202	+ 5	−86 15 33.21	− 7.073	− 2
Sg	χ Octantis	5.22	K 0	18 18 41.15	+35.566	− 82	−87 39 31.70	+ 1.502	−130
Sh	σ Octantis	5.48	F 0	19 58 57.63	+83.608	+106	−89 10 24.73	+ 9.945	+ 2
Si	β Octantis	4.34	F 0	22 39 50.50	+ 6.189	− 26	−81 42 27.57	+18.833	+ 2
Sk	τ Octantis	5.56	K 0	23 19 32.67	+ 9.267	+ 20	−87 49 24.20	+19.748	+ 15

Scheinbare Sternörter 1938

Tag	1) α Andromedae				2) β Cassiopeiae				3) ε Phoenicis				7) γ Pegasi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	0h 5m		+28° 44′		0h 5m		+58° 48′		0h 6m		−46° 4′		0h 10m		+14° 50′	
Jan. 0	s 11.640	140	" 68.27	95	s 52.545	311	" 51.06	76	s 16.496	206	" 92.31	32	s 3.324	119	" 29.90	86
10	11.500	135	67.32	121	52.234	298	50.30	127	16.290	191	91.99	77	3.205	114	29.04	97
20	11.365	123	66.11	141	51.936	275	49.03	174	16.099	169	91.22	121	3.091	105	28.07	105
30	11.242	105	64.70	157	51.661	238	47.29	214	15.930	143	90.01	162	2.986	89	27.02	108
Febr. 9	11.137	80	63.13	165	51.423	189	45.15	245	15.787	111	88.39	199	2.897	69	25.94	105
19	11.057	50	61.48	167	51.234	130	42.70	265	15.676	73	86.40	230	2.828	43	24.89	98
März 1	11.007	13	59.81	160	51.104	61	40.05	275	15.603	32	84.10	258	2.785	12	23.91	86
11	10.994	29	58.21	145	51.043	14	37.30	274	15.571	15	81.52	280	2.773	25	23.05	67
21	11.023	74	56.76	124	51.057	94	34.56	260	15.586	64	78.72	295	2.798	65	22.38	43
31	11.097	120	55.52	97	51.151	174	31.96	237	15.650	115	75.77	306	2.863	107	21.95	17
Apr. 10	11.217	166	54.55	63	51.325	250	29.59	204	15.765	167	72.71	310	2.970	148	21.78	13
20	11.383	211	53.92	26	51.575	322	27.55	164	15.932	217	69.61	307	3.118	189	21.91	44
30	11.594	251	53.66	12	51.897	385	25.91	117	16.149	264	66.54	298	3.307	227	22.35	76
Mai 10	11.845	286	53.78	51	52.282	436	24.74	66	16.413	307	63.56	282	3.534	260	23.11	107
20	12.131	312	54.29	90	52.718	476	24.08	14	16.720	343	60.74	259	3.794	286	24.18	135
30	12.443	331	55.19	126	53.194	503	23.94	38	17.063	370	58.15	231	4.080	305	25.53	160
Juni 9	12.774	341	56.45	159	53.697	515	24.32	90	17.433	388	55.84	196	4.385	316	27.13	181
19	13.115	342	58.04	187	54.212	513	25.22	140	17.821	397	53.88	157	4.701	318	28.94	196
29	13.457	334	59.91	210	54.725	498	26.62	185	18.218	394	52.31	114	5.019	313	30.90	207
Juli 9	13.791	318	62.01	228	55.223	472	28.47	225	18.612	380	51.17	67	5.332	299	32.97	212
19	14.109	294	64.29	240	55.695	434	30.72	261	18.992	357	50.50	19	5.631	278	35.09	213
29	14.403	263	66.69	247	56.129	388	33.33	289	19.349	323	50.31	29	5.909	251	37.22	207
Aug. 8	14.666	228	69.16	247	56.517	334	36.22	311	19.672	282	50.60	75	6.160	219	39.29	197
18	14.894	190	71.63	243	56.851	274	39.33	327	19.954	233	51.35	119	6.379	184	41.26	183
28	15.084	148	74.06	235	57.125	212	42.60	335	20.187	179	52.54	157	6.563	145	43.09	167
Sept. 7	15.232	107	76.41	221	57.337	147	45.95	337	20.366	122	54.11	190	6.708	107	44.76	147
17	[23] 15.339	67	78.62	203	[23] 57.484	84	49.32	333	[23] 20.488	65	56.01	215	[24] 6.815	69	46.23	126
26	15.406	29	80.65	183	57.568	21	52.65	321	20.553	9	58.16	231	6.884	34	47.49	104
Okt. 6	15.435	7	82.48	160	57.589	39	55.86	301	20.562	43	60.47	238	6.918	1	48.53	81
16	15.428	38	84.08	135	57.550	94	58.87	277	20.519	90	62.85	234	6.919	28	49.34	58
26	15.390	66	85.43	107	57.456	146	61.64	246	20.429	132	65.19	222	6.891	53	49.92	35
Nov. 5	15.324	90	86.50	77	57.310	193	64.10	207	20.297	166	67.41	199	6.838	74	50.27	14
15	15.234	109	87.27	47	57.117	233	66.17	165	20.131	190	69.40	169	6.764	92	50.41	7
25	15.125	124	87.74	15	56.884	266	67.82	117	19.941	207	71.09	133	6.672	105	50.34	27
Dez. 5	15.001	136	87.89	17	56.618	292	68.99	65	19.734	218	72.42	92	6.567	115	50.07	47
15	14.865	143	87.72	49	56.326	309	69.64	10	19.516	219	73.34	46	6.452	120	49.60	64
25	14.722	145	87.23	79	56.017	316	69.74	44	19.297	214	73.80	1	6.332	123	48.96	79
35	14.577		86.44		55.701		69.30		19.083		73.79		6.209		48.17	
Mittl. Ort	10.693		53.44		51.389		28.16		16.085		83.03		2.413		19.83	
sec δ, tg δ	1.141		+0.549		1.931		+1.652		1.442		−1.039		1.035		+0.265	
a, *a′*	+3.1		+20.0		+3.1		+20.0		+3.0		+20.0		+3.1		+20.0	
b, *b′*	+0.04		− 0.02		+0.11		− 0.03		−0.07		− 0.03		+0.02		− 0.04	

Tag	9) ι Ceti AR.	Δ	9) ι Ceti Dekl.	Δ	10) ζ Tucanae AR.	Δ	10) ζ Tucanae Dekl.	Δ	11) β Hydri AR.	Δ	11) β Hydri Dekl.	Δ	12) α Phoenicis AR.	Δ	12) α Phoenicis Dekl.	Δ
1938	0h 16m		−9° 9′		0h 16m		−65° 13′		0h 22m		−77° 35′		0h 23m		−42° 38′	
	s		″		s		″		s		″		s		″	
Jan. 0	16.946	116	61.75	58	51.10	42	94.43	75	30.56	91	86.58	98	13.901	196	43.22	5
10	16.830	111	62.33	44	50.68	38	93.68	132	29.65	85	85.60	157	13.705	186	43.17	50
20	16.719	102	62.77	27	50.30	35	92.36	183	28.80	78	84.03	211	13.519	170	42.67	93
30	16.617	89	63.04	9	49.95	30	90.53	230	28.02	68	81.92	259	13.349	149	41.74	134
Febr. 9	16.528	69	63.13	11	49.65	25	88.23	271	27.34	57	79.33	300	13.200	122	40.40	172
19	16.459	45	63.02	33	49.40	18	85.52	305	26.77	43	76.33	332	13.078	89	38.68	206
März 1	16.414	16	62.69	55	49.22	11	82.47	331	26.34	29	73.01	357	12.989	50	36.62	236
11	16.398	17	62.14	78	49.11	3	79.16	351	26.05	14	69.44	373	12.939	8	34.26	261
21	16.415	55	61.36	102	49.08	5	75.65	361	25.91	1	65.71	381	12.931	39	31.65	280
31	16.470	94	60.34	126	49.13	13	72.04	366	25.92	17	61.90	380	12.970	88	28.85	293
Apr. 10	16.564	134	59.08	148	49.26	20	68.38	361	26.09	32	58.10	371	13.058	138	25.92	302
20	16.698	174	57.60	167	49.46	29	64.77	350	26.41	47	54.39	355	13.196	188	22.90	303
30	16.872	211	55.93	185	49.75	37	61.27	330	26.88	61	50.84	330	13.384	235	19.87	299
Mai 10	17.083	243	54.08	198	50.12	43	57.97	303	27.49	74	47.54	299	13.619	279	16.88	287
20	17.326	272	52.10	206	50.55	49	54.94	270	28.23	85	44.55	260	13.898	315	14.01	269
30	17.598	293	50.04	210	51.04	54	52.24	230	29.08	94	41.95	217	14.213	345	11.32	244
Juni 9	17.891	306	47.94	208	51.58	57	49.94	186	30.02	101	39.78	167	14.558	366	8.88	213
19	18.197	311	45.86	201	52.15	59	48.08	135	31.03	105	38.11	113	14.924	376	6.75	177
29	18.508	309	43.85	189	52.74	59	46.73	82	32.08	106	36.98	58	15.300	378	4.98	136
Juli 9	18.817	297	41.96	170	53.33	58	45.91	28	33.14	104	36.40	1	15.678	368	3.62	92
19	19.114	279	40.26	149	53.91	55	45.63	28	34.18	100	36.41	58	16.046	349	2.70	45
29	19.393	253	38.77	124	54.46	50	45.91	83	35.18	92	36.99	113	16.395	321	2.25	3
Aug. 8	19.646	223	37.53	96	54.96	44	46.74	135	36.10	82	38.12	166	16.716	284	2.28	50
18	19.869	188	36.57	66	55.40	37	48.09	181	36.92	68	39.78	212	17.000	240	2.78	94
28	20.057	150	35.91	37	55.77	29	49.90	221	37.60	54	41.90	252	17.240	192	3.72	136
Sept. 7	20.207	112	35.54	9	56.06	20	52.11	254	38.14	36	44.42	283	17.432	139	5.08	171
17	20.319	73	35.45	19	56.26	10	54.65	277	38.50	17	47.25	303	17.571	86	6.79	199
26*)	[25] 20.392	36	35.64	42	[26] 56.36	1	57.42	289	38.67	1	50.28	312	17.657	34	8.78	220
Okt. 6	20.428	3	36.06	62	56.37	9	60.31	290	[27] 38.66	19	53.40	308	[27] 17.691	15	10.98	231
16	20.431	27	36.68	77	56.28	17	63.21	279	38.47	37	56.48	294	17.676	61	13.29	232
26	20.404	53	37.45	88	56.11	25	66.00	257	38.10	54	59.42	267	17.615	101	15.61	225
Nov. 5	20.351	75	38.33	94	55.86	31	68.57	224	37.56	67	62.09	228	17.514	135	17.86	207
15	20.276	91	39.27	96	55.55	36	70.81	182	36.89	78	64.37	181	17.379	162	19.93	182
25	20.185	105	40.23	94	55.19	40	72.63	133	36.11	87	66.18	127	17.217	182	21.75	150
Dez. 5	20.080	113	41.17	89	54.79	43	73.96	79	35.24	92	67.45	68	17.035	194	23.25	111
15	19.967	119	42.06	79	54.36	43	74.75	21	34.32	94	68.13	4	16.841	201	24.36	69
25	19.848	120	42.85	68	53.93	42	74.96	38	33.38	93	68.17	58	16.640	201	25.05	25
35	19.728		43.53		53.51		74.58		32.45		67.59		16.439		25.30	
Mittl. Ort	16.131		63.22		51.09		81.42		31.48		72.30		13.330		34.31	
sec δ, tg δ	1.013		−0.161		2.388		−2.168		4.658		−4.550		1.359		−0.921	
a, a′	+3.1		+20.0		+2.9		+20.0		+2.5		+19.9		+2.9		+19.9	
b, b′	−0.01		− 0.07		−0.14		− 0.07		−0.30		− 0.10		−0.06		− 0.10	

*) Bei Stern 11) und 12) lies Sept. 27.

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Tag	13) 12 Ceti AR.		13) 12 Ceti Dekl.		17) ζ Cassiopeiae AR.		17) ζ Cassiopeiae Dekl.		18) π Andromedae AR.		18) π Andromedae Dekl.		20) δ Andromedae AR.		20) δ Andromedae Dekl.	
1938	0h 26m		−4° 17′		0h 33m		+53° 33′		0h 33m		+33° 22′		0h 36m		+30° 31′	
	s		"		s		"		s		"		s		"	
Jan. 0	53.387	116	56.13	67	31.761	260	42.69	50	35.022	156	57.65	72	1.611	148	34.18	73
10	53.271	113	56.80	57	31.501	259	42.19	99	34.866	156	56.93	103	1.463	149	33.45	101
20	53.158	106	57.37	45	31.242	247	41.20	144	34.710	150	55.90	130	1.314	142	32.44	124
30	53.052	94	57.82	30	30.995	224	39.76	182	34.560	135	54.60	151	1.172	130	31.20	144
Febr. 9	52.958	77	58.12	14	30.771	190	37.94	214	34.425	114	53.09	167	1.042	110	29.76	156
19	52.881	54	58.26	5	30.581	144	35.80	237	34.311	84	51.42	174	0.932	82	28.20	162
März 1	52.827	26	58.21	26	30.437	88	33.43	250	34.227	48	49.68	175	0.850	47	26.58	161
11	52.801	8	57.95	48	30.349	26	30.93	251	34.179	5	47.93	166	0.803	6	24.97	152
21	52.809	44	57.47	72	30.323	42	28.42	242	34.174	43	46.27	150	0.797	40	23.45	135
31	52.853	84	56.75	97	30.365	113	26.00	224	34.217	92	44.77	127	0.837	88	22.10	112
Apr. 10	52.937	124	55.78	120	30.478	184	23.76	196	34.309	142	43.50	97	0.925	137	20.98	83
20	53.061	165	54.58	143	30.662	251	21.80	161	34.451	192	42.53	64	1.062	185	20.15	49
30	53.226	204	53.15	162	30.913	311	20.19	119	34.643	238	41.89	26	1.247	229	19.66	14
Mai 10	53.430	237	51.53	180	31.224	364	19.00	74	34.881	277	41.63	14	1.476	269	19.52	25
20	53.667	266	49.73	193	31.588	407	18.26	25	35.158	310	41.77	53	1.745	302	19.77	62
30	53.933	287	47.80	201	31.995	438	18.01	24	35.468	335	42.30	91	2.047	326	20.39	99
Juni 9	54.220	303	45.79	205	32.433	457	18.25	72	35.803	350	43.21	127	2.373	341	21.38	132
19	54.523	309	43.74	202	32.890	464	18.97	119	36.153	356	44.48	159	2.714	348	22.70	162
29	54.832	308	41.72	194	33.354	459	20.16	161	36.509	353	46.07	188	3.062	346	24.32	188
Juli 9	55.140	298	39.78	181	33.813	442	21.77	201	36.862	342	47.95	211	3.408	335	26.20	209
19	55.438	281	37.97	164	34.255	415	23.78	234	37.204	321	50.06	228	3.743	316	28.29	225
29	55.719	257	36.33	143	34.670	380	26.12	263	37.525	294	52.34	241	4.059	289	30.54	234
Aug. 8	55.976	228	34.90	119	35.050	337	28.75	284	37.819	262	54.75	248	4.348	259	32.88	239
18	56.204	195	33.71	92	35.387	289	31.59	300	38.081	225	57.23	249	4.607	223	35.27	238
28	56.399	159	32.79	65	35.676	237	34.59	311	38.306	185	59.72	245	4.830	184	37.65	233
Sept. 7	56.558	121	32.14	37	35.913	183	37.70	313	38.491	144	62.17	237	5.014	144	39.98	223
17	56.679	84	31.77	10	36.096	127	40.83	310	38.635	104	64.54	225	5.158	105	42.21	209
27	56.763	49	31.67	13	36.223	74	43.93	302	38.739	64	66.79	207	5.263	67	44.30	192
Okt. 6	[28]56.812	15	31.80	35	[30]36.297	21	46.95	286	[30]38.803	26	68.86	188	[30]5.330	30	46.22	172
16	56.827	15	32.15	52	36.318	29	49.81	265	38.829	8	70.74	165	5.360	4	47.94	149
26	56.812	41	32.67	66	36.289	77	52.46	238	38.821	40	72.39	139	5.356	35	49.43	123
Nov. 5	56.771	64	33.33	76	36.212	120	54.84	206	38.781	68	73.78	111	5.321	62	50.66	97
15	56.707	81	34.09	82	36.092	159	56.90	167	38.713	94	74.89	80	5.259	87	51.63	68
25	56.626	96	34.91	84	35.933	194	58.57	125	38.619	116	75.69	47	5.172	108	52.31	38
Dez. 5	56.530	107	35.75	83	35.739	223	59.82	79	38.503	133	76.16	14	5.064	125	52.69	6
15	56.423	115	36.58	80	35.516	245	60.61	29	38.370	147	76.30	20	4.939	139	52.75	25
25	56.308	118	37.38	73	35.271	259	60.90	20	38.223	157	76.10	54	4.800	149	52.50	56
35	56.190		38.11		35.012		60.70		38.066		75.56		4.651		51.94	
Mittl. Ort	52.481		59.07		30.313		21.40		33.817		41.89		0.411		19.37	
sec δ, tg δ	1.003		−0.075		1.683		+1.354		1.198		+0.659		1.161		+0.590	
a, *a′*	+3.1		+19.9		+3.3		+19.8		+3.2		+19.8		+3.2		+19.8	
b, *b′*	0.00		− 0.12		+0.09		− 0.15		+0.04		− 0.15		+0.04		− 0.16	

Tag		21) α Cassiopeiae AR.		21) α Cassiopeiae Dekl.		22) β Ceti AR.		22) β Ceti Dekl.		25) o Cassiopeiae AR.		25) o Cassiopeiae Dekl.		24) 21 Cassiopeiae AR.		24) 21 Cassiopeiae Dekl.	
1938		$0^h\ 36^m$		+56° 11′		$0^h\ 40^m$		−18° 19′		$0^h\ 41^m$		+47° 56′		$0^h\ 41^m$		+74° 38′	
		s		″		s		″		s		″		s		″	
Jan.	0	60.046	283	73.20	43	29.571	130	38.17	54	17.065	218	62.84	50	33.39	71	83.01	1
	10	59.763	284	72.77	93	29.441	129	38.71	29	16.847	220	62.34	94	32.68	71	83.00	62
	20	59.479	272	71.84	140	29.312	123	39.00	2	16.627	213	61.40	135	31.97	67	82.38	121
	30	59.207	248	70.44	181	29.189	111	39.02	24	16.414	195	60.05	170	31.30	62	81.17	176
Febr.	9	58.959	211	68.63	215	29.078	94	38.78	51	16.219	168	58.35	198	30.68	54	79.41	222
	19	58.748	163	66.48	240	28.984	72	38.27	78	16.051	129	56.37	218	30.14	42	77.19	259
März	1	58.585	104	64.08	255	28.912	44	37.49	105	15.922	83	54.19	228	29.72	30	74.60	285
	11	58.481	36	61.53	259	28.868	11	36.44	130	15.839	28	51.91	229	29.42	14	71.75	300
	21	58.445	36	58.94	253	28.857	26	35.14	155	15.811	32	49.62	219	29.28	1	68.75	303
	31	58.481	112	56.41	235	28.883	67	33.59	177	15.843	94	47.43	201	29.29	16	65.72	293
Apr.	10	58.593	187	54.06	208	28.950	110	31.82	196	15.937	158	45.42	174	29.45	32	62.79	272
	20	58.780	259	51.98	174	29.060	152	29.86	213	16.095	219	43.68	140	29.77	46	60.07	241
	30	59.039	325	50.24	133	29.212	192	27.73	224	16.314	275	42.28	101	30.23	60	57.66	202
Mai	10	59.364	381	48.91	87	29.404	230	25.49	232	16.589	324	41.27	57	30.83	71	55.64	156
	20	59.745	426	48.04	39	29.634	262	23.17	235	16.913	364	40.70	12	31.54	79	54.08	106
	30	60.171	461	47.65	11	29.896	287	20.82	231	17.277	394	40.58	35	32.33	86	53.02	52
Juni	9	60.632	481	47.76	60	30.183	305	18.51	221	17.671	414	40.93	80	33.19	91	52.50	3
	19	61.113	489	48.36	109	30.488	316	16.30	206	18.085	423	41.73	122	34.10	92	52.53	58
	29	61.602	485	49.45	153	30.804	317	14.24	186	18.508	420	42.95	162	35.02	92	53.11	111
Juli	9	62.087	468	50.98	194	31.121	311	12.38	160	18.928	406	44.57	198	35.94	89	54.22	161
	19	62.555	441	52.92	229	31.432	296	10.78	131	19.334	384	46.55	227	36.83	83	55.83	207
	29	62.996	404	55.21	260	31.728	274	9.47	97	19.718	354	48.82	252	37.66	77	57.90	248
Aug.	8	63.400	359	57.81	285	32.002	246	8.50	63	20.072	316	51.34	271	38.43	69	60.38	284
	18	63.759	310	60.66	302	32.248	213	7.87	27	20.388	274	54.05	284	39.12	59	63.22	314
	28	64.069	255	63.68	314	32.461	176	7.60	8	20.662	227	56.89	291	39.71	49	66.36	336
Sept.	7	64.324	198	66.82	320	32.637	138	7.68	41	20.889	180	59.80	292	40.20	38	69.72	353
	17	64.522	141	70.02	318	32.775	98	8.09	72	21.069	131	62.72	288	40.58	26	73.25	361
	27	[1]64.663	82	73.20	311	[2]32.873	60	8.81	97	[2]21.200	82	65.60	277	[2]40.84	14	76.86	363
Okt.	6	64.745	26	76.31	297	32.933	24	9.78	117	21.282	36	68.37	262	40.98	2	80.49	356
	16	64.771	28	79.28	277	32.957	10	10.95	131	21.318	8	70.99	241	41.00	11	84.05	342
	26	64.743	79	82.05	251	32.947	39	12.26	139	21.310	50	73.40	215	40.89	21	87.47	320
Nov.	5	64.664	127	84.56	219	32.908	65	13.65	141	21.260	89	75.55	185	40.68	33	90.67	289
	15	64.537	170	86.75	181	32.843	86	15.06	135	21.171	124	77.40	149	40.35	43	93.56	252
	25	64.367	208	88.56	138	32.757	103	16.41	126	21.047	155	78.89	110	39.92	53	96.08	206
Dez.	5	64.159	241	89.94	90	32.654	117	17.67	110	20.892	181	79.99	67	39.39	60	98.14	153
	15	63.918	266	90.84	41	32.537	126	18.77	92	20.711	203	80.66	23	38.79	66	99.67	97
	25	63.652	283	91.25	11	32.411	132	19.69	69	20.508	217	80.89	23	38.13	71	100.64	37
	35	63.369		91.14		32.279		20.38		20.291		80.66		37.42		101.01	
Mittl. Ort		58.505		51.39		28.679		35.96		15.621		43.11		30.92		58.20	
sec δ, tg δ		1.797		+1.494		1.053		−0.331		1.493		+1.108		3.778		+3.643	
a, *a′*		+3.4		+19.8		+3.0		+19.7		+3.3		+19.7		+4.0		+19.7	
b, *b′*		+0.10		− 0.16		−0.02		− 0.18		+0.07		− 0.18		+0.24		− 0.18	

Scheinbare Sternörter 1938

Tag	27) ζ Andromedae AR.		27) ζ Andromedae Dekl.		32) γ Cassiopeiae AR.		32) γ Cassiopeiae Dekl.		33) μ Andromedae AR.		33) μ Andromedae Dekl.		35) α Sculptoris AR.		35) α Sculptoris Dekl.	
1938	$0^h\ 44^m$		$+23°\ 55'$		$0^h\ 52^m$		$+60°\ 22'$		$0^h\ 53^m$		$+38°\ 9'$		$0^h\ 55^m$		$-29°\ 41'$	
	s		"		s		"		s		"		s		"	
Jan. 0	4.050	135	61.17	72	58.84	33	75.28	16	19.680	171	65.20	52	38.012	157	38.81	48
10	3.915	137	60.45	92	58.51	33	75.12	69	19.509	175	64.68	87	37.855	157	39.29	11
20	3.778	133	59.53	110	58.18	33	74.43	121	19.334	173	63.81	120	37.698	152	39.40	25
30	3.645	123	58.43	123	57.85	30	73.22	166	19.161	161	62.61	146	37.546	141	39.15	61
Febr. 9	3.522	106	57.20	130	57.55	27	71.56	205	19.000	141	61.15	167	37.405	124	38.54	96
19	3.416	81	55.90	132	57.28	22	69.51	236	18.859	113	59.48	182	37.281	100	37.58	130
März 1	3.335	49	54.58	128	57.06	15	67.15	257	18.746	76	57.66	187	37.181	72	36.28	161
11	3.286	13	53.30	116	56.91	7	64.58	267	18.670	31	55.79	185	37.109	37	34.67	189
21	3.273	30	52.14	98	56.84	0	61.91	265	18.639	19	53.94	173	37.072	3	32.78	214
31	3.303	76	51.16	76	56.84	9	59.26	253	18.658	72	52.21	155	37.075	46	30.64	235
Apr. 10	3.379	122	50.40	48	56.93	18	56.73	231	18.730	127	50.66	130	37.121	92	28.29	252
20	3.501	168	49.92	17	57.11	26	54.42	201	18.857	180	49.36	97	37.213	138	25.77	265
30	3.669	211	49.75	17	57.37	33	52.41	162	19.037	231	48.39	61	37.351	182	23.12	271
Mai 10	3.880	250	49.92	51	57.70	40	50.79	118	19.268	276	47.78	22	37.533	224	20.41	272
20	4.130	282	50.43	84	58.10	46	49.61	71	19.544	313	47.56	18	37.757	260	17.69	266
30	4.412	307	51.27	115	58.56	49	48.90	21	19.857	343	47.74	58	38.017	291	15.03	254
Juni 9	4.719	324	52.42	144	59.05	53	48.69	29	20.200	362	48.32	97	38.308	313	12.49	236
19	5.043	332	53.86	168	59.58	54	48.98	79	20.562	373	49.29	133	38.621	328	10.13	212
29	5.375	331	55.54	188	60.12	54	49.77	126	20.935	374	50.62	165	38.949	334	8.01	182
Juli 9	5.706	323	57.42	203	60.66	52	51.03	170	21.309	364	52.27	193	39.283	331	6.19	147
19	6.029	306	59.45	213	61.18	50	52.73	209	21.673	347	54.20	216	39.614	319	4.72	108
29	6.335	282	61.58	218	61.68	47	54.82	244	22.020	323	56.36	234	39.933	298	3.64	67
Aug. 8	6.617	254	63.76	217	62.15	42	57.26	272	22.343	292	58.70	246	40.231	272	2.97	24
18	6.871	220	65.93	212	62.57	37	59.98	295	22.635	255	61.16	252	40.503	238	2.73	19
28	7.091	185	68.05	202	62.94	31	62.93	312	22.890	217	63.68	254	40.741	201	2.92	61
Sept. 7	7.276	147	70.07	189	63.25	25	66.05	323	23.107	176	66.22	251	40.942	160	3.53	98
17	7.423	109	71.96	173	63.50	18	69.28	325	23.283	133	68.73	242	41.102	117	4.51	132
27	7.532	73	73.69	154	63.68	12	72.53	323	23.416	93	71.15	230	41.219	74	5.83	159
Okt. 6	[2]7.605	39	75.23	134	[5]63.80	6	75.76	314	[5]23.509	53	73.45	214	[5]41.293	34	7.42	179
16	7.644	6	76.57	112	63.86	0	78.90	297	23.562	16	75.59	192	41.327	5	9.21	192
26	7.650	23	77.69	89	63.86	6	81.87	275	23.578	20	77.51	169	41.322	40	11.13	195
Nov. 5	7.627	50	78.58	65	63.80	12	84.62	245	23.558	53	79.20	142	41.282	70	13.08	191
15	7.577	72	79.23	40	63.68	18	87.07	209	23.505	83	80.62	111	41.212	97	14.99	179
25	7.505	93	79.63	15	63.50	22	89.16	168	23.422	111	81.73	78	41.115	118	16.78	160
Dez. 5	7.412	111	79.78	11	63.28	26	90.84	120	23.311	133	82.51	44	40.997	136	18.38	134
15	7.301	125	79.67	35	63.02	30	92.04	70	23.178	153	82.95	6	40.861	148	19.72	105
25	7.176	134	79.32	59	62.72	33	92.74	17	23.025	169	83.01	31	40.713	157	20.77	71
35	7.042		78.73		62.39		92.91		22.856		82.70		40.556		21.48	
Mittl. Ort	2.845		48.72		56.97		53.05		18.257		48.50		37.116		32.67	
sec δ, tg δ	1.094		+0.444		2.023		+1.759		1.272		+0.786		1.151		−0.570	
a, *a′*	+3.2		+19.7		+3.6		+19.5		+3.3		+19.5		+2.9		+19.5	
b, *b′*	+0.03		− 0.19		+0.11		− 0.23		+0.05		− 0.23		−0.04		− 0.24	

Obere Kulmination Greenwich

Tag	36) ε Piscium AR.		36) ε Piscium Dekl.		38) β Phoenicis AR.		38) β Phoenicis Dekl.		42) β Andromedae AR.		42) β Andromedae Dekl.		45) υ Piscium AR.		45) υ Piscium Dekl.	
1938	$0^h\ 59^m$		$+7°\ 33'$		$1^h\ 3^m$		$-47°\ 2'$		$1^h\ 6^m$		$+35°\ 17'$		$1^h\ 16^m$		$+26°\ 56'$	
Jan. 0	44.555	118	30.79	72	19.861	235	73.34	27	16.716	159	47.88	46	4.628	137	31.79	51
10	44.437	123	30.07	75	19.626	233	73.61	22	16.557	167	47.42	78	4.491	147	31.28	74
20	44.314	122	29.32	74	19.393	225	73.39	71	16.390	167	46.64	108	4.344	149	30.54	95
30	44.192	115	28.58	71	19.168	210	72.68	119	16.223	160	45.56	132	4.195	145	29.59	112
Febr. 9	44.077	102	27.87	64	18.958	186	71.49	162	16.063	143	44.24	152	4.050	132	28.47	124
19	43.975	83	27.23	55	18.772	157	69.87	203	15.920	118	42.72	165	3.918	112	27.23	132
März 1	43.892	57	26.68	40	18.615	119	67.84	237	15.802	84	41.07	171	3.806	82	25.91	132
11	43.835	25	26.28	23	18.496	76	65.47	267	15.718	43	39.36	169	3.724	47	24.59	126
21	43.810	13	26.05	2	18.420	28	62.80	292	15.675	4	37.67	159	3.677	4	23.33	114
31	43.823	54	26.03	21	18.392	25	59.88	310	15.679	56	36.08	142	3.673	42	22.19	96
Apr. 10	43.877	97	26.24	46	18.417	81	56.78	322	15.735	108	34.66	118	3.715	91	21.23	72
20	43.974	140	26.70	72	18.498	137	53.56	327	15.843	162	33.48	87	3.806	140	20.51	45
30	44.114	181	27.42	99	18.635	191	50.29	325	16.005	212	32.61	53	3.946	187	20.06	14
Mai 10	44.295	219	28.41	123	18.826	243	47.04	315	16.217	257	32.08	19	4.133	231	19.92	20
20	44.514	252	29.64	145	19.069	290	43.89	299	16.474	295	31.89	20	4.364	268	20.12	52
30	44.766	279	31.09	163	19.359	329	40.90	275	16.769	326	32.09	58	4.632	298	20.64	84
Juni 9	45.045	297	32.72	178	19.688	360	38.15	244	17.095	348	32.67	94	4.930	321	21.48	114
19	45.342	309	34.50	188	20.048	381	35.71	208	17.443	361	33.61	128	5.251	335	22.62	140
29	45.651	311	36.38	192	20.429	393	33.63	166	17.804	364	34.89	158	5.586	339	24.02	164
Juli 9	45.962	306	38.30	193	20.822	393	31.97	119	18.168	358	36.47	184	5.925	336	25.66	183
19	46.268	294	40.23	187	21.215	382	30.78	69	18.526	344	38.31	204	6.261	325	27.49	196
29	46.562	275	42.10	176	21.597	361	30.09	18	18.870	322	40.35	220	6.586	306	29.45	205
Aug. 8	46.837	250	43.86	162	21.958	331	29.91	35	19.192	294	42.55	232	6.892	281	31.50	208
18	47.087	220	45.48	145	22.289	293	30.26	85	19.486	261	44.87	236	7.173	252	33.58	208
28	47.307	187	46.93	124	22.582	247	31.11	132	19.747	225	47.23	237	7.425	220	35.66	202
Sept. 7	47.494	154	48.17	101	22.829	197	32.43	175	19.972	186	49.60	233	7.645	184	37.68	194
17	47.648	119	49.18	79	23.026	142	34.18	210	20.158	147	51.93	225	7.829	147	39.62	181
27	47.767	84	49.97	56	23.168	86	36.28	237	20.305	108	54.18	212	7.976	112	41.43	166
Okt. 6*)	[6] 47.851	51	50.53	34	[7] 23.254	33	38.65	255	[8] 20.413	69	56.30	197	[11] 8.088	77	43.09	148
16	47.902	21	50.87	14	23.287	20	41.20	263	20.482	33	58.27	177	8.165	43	44.57	129
26	47.923	7	51.01	5	23.267	70	43.83	259	20.515	2	60.04	154	8.208	12	45.86	108
Nov. 5	47.916	32	50.96	22	23.197	112	46.42	246	20.513	35	61.58	130	8.220	18	46.94	86
15	47.884	55	50.74	35	23.085	150	48.88	222	20.478	64	62.88	103	8.202	47	47.80	63
25	47.829	75	50.39	48	22.935	181	51.10	191	20.414	92	63.91	72	8.155	72	48.43	39
Dez. 5	47.754	92	49.91	57	22.754	205	53.01	152	20.322	118	64.63	40	8.083	96	48.82	14
15	47.662	105	49.34	65	22.549	222	54.53	108	20.204	138	65.03	7	7.987	116	48.96	12
25	47.557	117	48.69	71	22.327	233	55.61	60	20.066	156	65.10	26	7.871	133	48.84	37
35	47.440		47.98		22.094		56.21		19.910		64.84		7.738		48.47	
Mittl. Ort	43.375		24.45		19.070		62.50		15.222		32.45		3.163		19.31	
sec δ, tg δ	1.009		+0.133		1.468		−1.074		1.225		+0.708		1.122		+0.508	
a, *a′*	+3.1		+19.4		+2.7		+19.3		+3.3		+19.2		+3.3		+18.9	
b, *b′*	+0.01		− 0.26		−0.07		− 0.27		+0.05		− 0.29		+0.03		− 0.33	

*) Bei Stern 38), 42) und 45) lies Okt. 7.

Tag	47) ϑ Ceti				48) δ Cassiopeiae				50) η Piscium				51) 40 Cassiopeiae			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$1^h\ 20^m$		$-8°\ 29'$		$1^h\ 21^m$		$+59°\ 54'$		$1^h\ 28^m$		$+15°\ 1'$		$1^h\ 33^m$		$+72°\ 43'$	
	s		″		s		″		s		″		s		″	
Jan. 0	56.604	123	69.85	77	46.759	312	70.74	17	11.116	120	44.24	61	34.66	58	52.80	64
10	56.481	129	70.62	61	46.447	328	70.91	35	10.996	130	43.63	71	34.08	62	53.44	3
20	56.352	131	71.23	43	46.119	332	70.56	87	10.866	135	42.92	79	33.46	63	53.47	56
30	56.221	127	71.66	23	45.787	320	69.69	135	10.731	134	42.13	83	32.83	61	52.91	113
Febr. 9	56.094	118	71.89	3	45.467	292	68.34	177	10.597	125	41.30	85	32.22	56	51.78	166
19	55.976	101	71.92	19	45.175	249	66.57	211	10.472	107	40.45	81	31.66	49	50.12	210
März 1	55.875	77	71.73	43	44.926	193	64.46	238	10.365	84	39.64	75	31.17	39	48.02	247
11	55.798	48	71.30	66	44.733	124	62.08	253	10.281	52	38.89	63	30.78	28	45.55	273
21	55.750	13	70.64	91	44.609	47	59.55	258	10.229	15	38.26	47	30.50	14	42.82	287
31	55.737	27	69.73	115	44.562	37	56.97	253	10.214	27	37.79	27	30.36	1	39.95	291
Apr. 10	55.764	70	68.58	138	44.599	123	54.44	238	10.241	72	37.52	3	30.35	13	37.04	282
20	55.834	113	67.20	160	44.722	207	52.06	213	10.313	118	37.49	22	30.48	27	34.22	263
30	55.947	155	65.60	178	44.929	287	49.93	181	10.431	163	37.71	48	30.75	41	31.59	236
Mai 10	56.102	195	63.82	193	45.216	359	48.12	141	10.594	204	38.19	76	31.16	52	29.23	199
20	56.297	230	61.89	205	45.575	421	46.71	98	10.798	241	38.95	102	31.68	63	27.24	157
30	56.527	261	59.84	211	45.996	470	45.73	52	11.039	271	39.97	125	32.31	72	25.67	109
Juni 9	56.788	284	57.73	212	46.466	507	45.21	4	11.310	294	41.22	146	33.03	78	24.58	60
19	57.072	299	55.61	208	46.973	530	45.17	44	11.604	311	42.68	163	33.81	82	23.98	8
29	57.371	306	53.53	198	47.503	540	45.61	91	11.915	317	44.31	175	34.63	85	23.90	44
Juli 9	57.677	306	51.55	182	48.043	535	46.52	135	12.232	316	46.06	183	35.48	84	24.34	94
19	57.983	298	49.73	161	48.578	518	47.87	175	12.548	309	47.89	185	36.32	83	25.28	141
29	58.281	283	48.12	137	49.096	492	49.62	211	12.857	293	49.74	182	37.15	79	26.69	186
Aug. 8	58.564	261	46.75	109	49.588	455	51.73	243	13.150	271	51.56	176	37.94	74	28.55	226
18	58.825	234	45.66	79	50.043	410	54.16	268	13.421	245	53.32	165	38.68	68	30.81	261
28	59.059	204	44.87	46	50.453	359	56.84	288	13.666	215	54.97	151	39.36	60	33.42	290
Sept. 7	59.263	171	44.41	15	50.812	304	59.72	303	13.881	184	56.48	135	39.96	51	36.32	314
17	59.434	136	44.26	15	51.116	244	62.75	310	14.065	150	57.83	115	40.47	42	39.46	331
27	59.570	101	44.41	43	51.360	184	65.85	313	14.215	118	58.98	95	40.89	32	42.77	342
Okt. 7	59.671	68	44.84	66	51.544	122	68.98	308	14.333	84	59.93	76	41.21	22	46.19	345
16	^{12}59.739	36	45.50	86	^{12}51.666	61	72.06	297	^{14}14.417	53	60.69	56	^{15}41.43	10	49.64	341
26	59.775	6	46.36	101	51.727	1	75.03	280	14.470	23	61.25	37	41.53	0	53.05	329
Nov. 5	59.781	21	47.37	110	51.726	61	77.83	255	14.493	4	61.62	19	41.53	11	56.34	310
15	59.760	46	48.47	115	51.665	118	80.38	225	14.489	31	61.81	1	41.42	22	59.44	282
25	59.714	69	49.62	113	51.547	173	82.63	189	14.458	56	61.82	14	41.20	32	62.26	246
Dez. 5	59.645	88	50.75	108	51.374	223	84.52	146	14.402	78	61.68	29	40.88	41	64.72	203
15	59.557	105	51.83	99	51.151	267	85.98	100	14.324	97	61.39	43	40.47	50	66.75	153
25	59.452	118	52.82	87	50.884	300	86.98	48	14.227	115	60.96	55	39.97	55	68.28	98
35	59.334		53.69		50.584		87.46		14.112		60.41		39.42		69.26	
Mittl. Ort	55.414		69.99		44.493		49.68		9.695		36.17		31.11		30.23	
sec δ, tg δ	1.011		−0.150		1.995		+1.726		1.035		+0.268		3.367		+3.216	
a, *a′*	+3.0		+18.8		+3.9		+18.8		+3.2		+18.6		+4.8		+18.4	
b, *b′*	−0.01		−0.35		+0.11		−0.35		+0.02		−0.38		+0.20		−0.40	

Tag	52) υ Persei				54) α Eridani				55) 43 Cassiopeiae				57) φ Persei			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	1h 34m		+48° 18′		1h 35m		−57° 32′		1h 37m		+67° 43′		1h 39m		+50° 22′	
	s		"		s		"		s		"		s		"	
Jan. 0	12.487	208	71.20	3	25.430	333	78.30	50	46.18	44	71.24	56	47.812	219	55.96	14
10	12.279	224	71.23	40	25.097	341	78.80	7	45.74	46	71.80	1	47.593	237	56.10	30
20	12.055	232	70.83	82	24.756	337	78.73	63	45.28	47	71.79	58	47.356	247	55.80	74
30	11.823	229	70.01	120	24.419	323	78.10	116	44.81	46	71.21	112	47.109	244	55.06	116
Febr. 9	11.594	214	68.81	154	24.096	300	76.94	167	44.35	43	70.09	162	46.865	229	53.90	151
19	11.380	186	67.27	181	23.796	267	75.27	213	43.92	38	68.47	204	46.636	202	52.39	180
März 1	11.194	148	65.46	201	23.529	224	73.14	253	43.54	30	66.43	238	46.434	163	50.59	203
11	11.046	99	63.45	212	23.305	173	70.61	287	43.24	22	64.05	262	46.271	113	48.56	216
21	10.947	42	61.33	213	23.132	114	67.74	315	43.02	11	61.43	275	46.158	54	46.40	220
31	10.905	20	59.20	206	23.018	51	64.59	335	42.91	1	58.68	277	46.104	11	44.20	214
Apr. 10	10.925	85	57.14	190	22.967	18	61.24	349	42.90	11	55.91	268	46.115	79	42.06	199
20	11.010	152	55.24	166	22.985	89	57.75	355	43.01	22	53.23	249	46.194	148	40.07	178
30	11.162	215	53.58	135	23.074	159	54.20	353	43.23	32	50.74	220	46.342	214	38.29	148
Mai 10	11.377	272	52.23	100	23.233	226	50.67	343	43.55	42	48.54	185	46.556	275	36.81	113
20	11.649	323	51.23	60	23.459	289	47.24	325	43.97	50	46.69	144	46.831	328	35.68	74
30	11.972	364	50.63	20	23.748	345	43.99	300	44.47	58	45.25	98	47.159	372	34.94	33
Juni 9	12.336	397	50.43	23	24.093	392	40.99	267	45.05	63	44.27	48	47.531	407	34.61	10
19	12.733	417	50.66	64	24.485	429	38.32	228	45.68	66	43.79	1	47.938	430	34.71	52
29	13.150	428	51.30	104	24.914	454	36.04	182	46.34	68	43.80	50	48.368	442	35.23	92
Juli 9	13.578	427	52.34	140	25.368	465	34.22	131	47.02	69	44.30	99	48.810	442	36.15	130
19	14.005	416	53.74	172	25.833	465	32.91	76	47.71	67	45.29	144	49.252	433	37.45	165
29	14.421	397	55.46	201	26.298	451	32.15	20	48.38	64	46.73	186	49.685	415	39.10	194
Aug. 8	14.818	371	57.47	224	26.749	425	31.95	37	49.02	60	48.59	223	50.100	388	41.04	220
18	15.189	337	59.71	242	27.174	387	32.32	93	49.62	55	50.82	256	50.488	355	43.24	240
28	15.526	298	62.13	256	27.561	338	33.25	147	50.17	49	53.38	283	50.843	316	45.64	256
Sept. 7	15.824	257	64.69	264	27.899	280	34.72	194	50.66	43	56.21	304	51.159	274	48.20	266
17	16.081	213	67.33	266	28.179	217	36.66	235	51.09	35	59.25	319	51.433	228	50.86	271
27	16.294	168	69.99	264	28.396	149	39.01	268	51.44	27	62.44	328	51.661	182	53.57	270
Okt. 7	16.462	122	72.63	256	28.545	79	41.69	289	51.71	19	65.72	330	51.843	135	56.27	264
16*)	[15] 16.584	76	75.19	244	[16] 28.624	9	44.58	301	[16] 51.90	11	69.02	325	[17] 51.978	87	58.91	254
26	16.660	31	77.63	227	28.633	59	47.59	300	52.01	2	72.27	313	52.065	40	61.45	237
Nov. 5	16.691	13	79.90	204	28.574	122	50.59	287	52.03	6	75.40	292	52.105	8	63.82	217
15	16.678	56	81.94	178	28.452	179	53.46	263	51.97	14	78.32	266	52.097	52	65.99	190
25	16.622	96	83.72	146	28.273	228	56.09	230	51.83	22	80.98	231	52.045	97	67.89	158
Dez. 5	16.526	135	85.18	110	28.045	270	58.39	188	51.61	30	83.29	189	51.948	138	69.47	123
15	16.391	169	86.28	70	27.775	302	60.27	139	51.31	36	85.18	142	51.810	174	70.70	84
25	16.222	198	86.98	30	27.473	325	61.66	85	50.95	41	86.60	90	51.636	207	71.54	40
35	16.024		87.28		27.148		62.51		50.54		87.50		51.429		71.94	
Mittl. Ort	10.488		53.28		24.494		64.95		43.14		49.58		45.694		37.81	
sec δ, tg δ	1.504		+1.123		1.864		−1.573		2.639		+2.442		1.568		+1.208	
a, *a*′	+3.7		+18.4		+2.2		+18.3		+4.4		+18.2		+3.8		+18.2	
b, *b*′	+0.07		− 0.40		−0.10		− 0.40		+0.15		− 0.41		+0.07		− 0.42	

*) Bei Stern 57) lies Okt. 17.

Scheinbare Sternörter 1938

Tag	59) τ Ceti [1] AR.		59) τ Ceti [1] Dekl.		60) ο Piscium AR.		60) ο Piscium Dekl.		61) Lac. ε Sculptoris AR.		61) Lac. ε Sculptoris Dekl.		62) ζ Ceti AR.		62) ζ Ceti Dekl.	
1938	1^h 41^m		−16° 15′		1^h 42^m		+8° 50′		1^h 42^m		−25° 21′		1^h 48^m		−10° 38′	
	s		″		s		″		s		″		s		″	
Jan. 0	12.480	133	51.64	81	8.439	115	52.36	67	45.665	146	49.89	88	25.267	121	27.76	87
10	12.347	143	52.45	57	8.324	126	51.69	69	45.519	157	50.77	54	25.146	134	28.63	68
20	12.204	148	53.02	30	8.198	134	51.00	69	45.362	162	51.31	19	25.012	140	29.31	47
30	12.056	147	53.32	2	8.064	135	50.31	67	45.200	160	51.50	17	24.872	141	29.78	25
Febr. 9	11.909	138	53.34	26	7.929	128	49.64	63	45.040	151	51.33	52	24.731	135	30.03	1
19	11.771	123	53.08	54	7.801	114	49.01	55	44.889	136	50.81	86	24.596	122	30.04	23
März 1	11.648	101	52.54	82	7.687	93	48.46	43	44.753	113	49.95	119	24.474	102	29.81	48
11	11.547	73	51.72	110	7.594	63	48.03	29	44.640	83	48.76	150	24.372	75	29.33	74
21	11.474	37	50.62	136	7.531	29	47.74	12	44.557	48	47.26	179	24.297	40	28.59	98
31	11.437	2	49.26	161	7.502	12	47.62	9	44.509	6	45.47	204	24.257	2	27.61	123
Apr. 10	11.439	45	47.65	183	7.514	56	47.71	32	44.503	39	43.43	226	24.255	40	26.38	146
20	11.484	91	45.82	203	7.570	100	48.03	56	44.542	85	41.17	244	24.295	85	24.92	168
30	11.575	134	43.79	219	7.670	145	48.59	81	44.627	132	38.73	257	24.380	129	23.24	187
Mai 10	11.709	176	41.60	230	7.815	187	49.40	104	44.759	176	36.16	265	24.509	171	21.37	201
20	11.885	215	39.30	237	8.002	224	50.44	126	44.935	216	33.51	266	24.680	210	19.36	212
30	12.100	247	36.93	238	8.226	257	51.70	145	45.151	252	30.85	261	24.890	243	17.24	219
Juni 9	12.347	274	34.55	233	8.483	281	53.15	161	45.403	282	28.24	250	25.133	270	15.05	218
19	12.621	293	32.22	223	8.764	299	54.76	173	45.685	302	25.74	233	25.403	289	12.87	214
29	12.914	305	29.99	205	9.063	309	56.49	179	45.987	316	23.41	208	25.692	302	10.73	202
Juli 9	13.219	307	27.94	183	9.372	310	58.28	180	46.303	321	21.33	178	25.994	306	8.71	186
19	13.526	302	26.11	156	9.682	305	60.08	178	46.624	318	19.55	144	26.300	302	6.85	164
29	13.828	289	24.55	125	9.987	292	61.86	170	46.942	306	18.11	105	26.602	292	5.21	138
Aug. 8	14.117	271	23.30	90	10.279	273	63.56	157	47.248	288	17.06	64	26.894	274	3.83	107
18	14.388	247	22.40	53	10.552	250	65.13	141	47.536	263	16.42	21	27.168	252	2.76	75
28	14.635	217	21.87	15	10.802	222	66.54	123	47.799	233	16.21	23	27.420	224	2.01	41
Sept. 7	14.852	184	21.72	22	11.024	191	67.77	101	48.032	199	16.44	63	27.644	194	1.60	7
17	15.036	150	21.94	56	11.215	160	68.78	80	48.231	162	17.07	102	27.838	162	1.53	25
27	15.186	115	22.50	86	11.375	128	69.58	57	48.393	125	18.09	135	28.000	128	1.78	56
Okt. 7	15.301	80	23.36	113	11.503	96	70.15	36	48.518	87	19.44	162	28.128	95	2.34	81
17	15.381	45	24.49	132	11.599	65	70.51	15	48.605	50	21.06	182	28.223	63	3.15	103
26	[17] 15.426	14	25.81	147	[17] 11.664	36	70.66	2	[17] 48.655	15	22.88	193	[19] 28.286	32	4.18	119
Nov. 5	15.440	16	27.28	153	11.700	8	70.64	18	48.670	19	24.81	197	28.318	2	5.37	128
15	15.424	44	28.81	153	11.708	20	70.46	32	48.651	49	26.78	192	28.320	25	6.65	133
25	15.380	69	30.34	146	11.688	44	70.14	43	48.602	77	28.70	181	28.295	51	7.98	131
Dez. 5	15.311	91	31.80	135	11.644	68	69.71	52	48.525	101	30.51	162	28.244	75	9.29	124
15	15.220	111	33.15	118	11.576	89	69.19	60	48.424	122	32.13	137	28.169	96	10.53	113
25	15.109	128	34.33	97	11.487	107	68.59	65	48.302	141	33.50	108	28.073	114	11.66	98
35	14.981		35.30		11.380		67.94		48.161		34.58		27.959		12.64	
Mittl. Ort	11.248		48.56		6.991		46.86		44.462		44.10		23.937		26.48	
sec δ, tg δ	1.042		−0.292		1.012		+0.156		1.107		−0.474		1.018		−0.188	
a, *a′*	+2.9		+18.1		+3.2		+18.1		+2.8		+18.1		+3.0		+17.8	
b, *b′*	−0.02		− 0.43		+0.01		− 0.43		−0.03		− 0.43		−0.01		− 0.46	

[1]) Die jährliche Parallaxe (0″.315) ist bereits berücksichtigt.

Tag	64) α Trianguli AR.		64) α Trianguli Dekl.		63) ε Cassiopeiae AR.		63) ε Cassiopeiae Dekl.		65) ξ Piscium AR.		65) ξ Piscium Dekl.		67) ψ Phoenicis AR.		67) ψ Phoenicis Dekl.	
1938	1ʰ 49ᵐ		+29° 16′		1ʰ 49ᵐ		+63° 21′		1ʰ 50ᵐ		+2° 52′		1ʰ 51ᵐ		−46° 35′	
	s		″		s		″		s		″		s		″	
Jan. 0	34.200	134	51.17	28	57.55	34	77.16	59	22.052	113	58.57	74	10.806	234	93.19	84
10	34.066	151	50.89	53	57.21	37	77.75	4	21.939	126	57.83	69	10.572	246	94.03	34
20	33.915	161	50.36	75	56.84	39	77.79	48	21.813	134	57.14	64	10.326	250	94.37	18
30	33.754	162	49.61	95	56.45	39	77.31	100	21.679	136	56.50	55	10.076	245	94.19	68
Febr. 9	33.592	156	48.66	112	56.06	36	76.31	148	21.543	131	55.95	44	9.831	233	93.51	116
19	33.436	140	47.54	124	55.70	32	74.83	189	21.412	119	55.51	31	9.598	212	92.35	161
März 1	33.296	115	46.30	129	55.38	27	72.94	222	21.293	99	55.20	16	9.386	181	90.74	203
11	33.181	82	45.01	130	55.11	20	70.72	245	21.194	70	55.04	3	9.205	144	88.71	238
21	33.099	41	43.71	122	54.91	11	68.27	259	21.124	37	55.07	22	9.061	99	86.33	269
31	33.058	6	42.49	110	54.80	2	65.68	262	21.087	2	55.29	43	8.962	48	83.64	295
Apr. 10	33.064	56	41.39	92	54.78	7	63.06	254	21.089	45	55.72	67	8.914	7	80.69	314
20	33.120	108	40.47	68	54.85	17	60.52	237	21.134	89	56.39	90	8.921	65	77.55	327
30	33.228	157	39.79	41	55.02	26	58.15	211	21.223	133	57.29	113	8.986	122	74.28	331
Mai 10	33.385	205	39.38	11	55.28	34	56.04	177	21.356	176	58.42	133	9.108	179	70.97	330
20	33.590	248	39.27	21	55.62	42	54.27	139	21.532	213	59.75	152	9.287	231	67.67	320
30	33.838	283	39.48	51	56.04	49	52.88	95	21.745	246	61.27	167	9.518	279	64.47	303
Juni 9	34.121	312	39.99	81	56.53	53	51.93	48	21.991	273	62.94	179	9.797	318	61.44	278
19	34.433	331	40.80	109	57.06	57	51.45	1	22.264	292	64.73	184	10.115	349	58.66	246
29	34.764	343	41.89	134	57.63	59	51.44	45	22.556	303	66.57	186	10.464	371	56.20	207
Juli 9	35.107	345	43.23	155	58.22	59	51.89	91	22.859	306	68.43	182	10.835	383	54.13	164
19	35.452	339	44.78	171	58.81	59	52.80	135	23.165	302	70.25	174	11.218	383	52.49	114
29	35.791	326	46.49	184	59.40	57	54.15	174	23.467	290	71.99	159	11.601	375	51.35	62
Aug. 8	36.117	306	48.33	191	59.97	54	55.89	210	23.757	274	73.58	142	11.976	356	50.73	8
18	36.423	282	50.24	193	60.51	49	57.99	241	24.031	252	75.00	121	12.332	328	50.65	46
28	36.705	253	52.17	193	61.00	45	60.40	267	24.283	225	76.21	97	12.660	291	51.11	99
Sept. 7	36.958	221	54.10	188	61.45	39	63.07	286	24.508	195	77.18	71	12.951	249	52.10	148
17	37.179	187	55.98	178	61.84	33	65.93	301	24.703	165	77.89	47	13.200	202	53.58	191
27	37.366	153	57.76	168	62.17	26	68.94	309	24.868	133	78.36	21	13.402	151	55.49	227
Okt. 7	37.519	118	59.44	154	62.43	20	72.03	312	25.001	102	78.57	2	13.553	98	57.76	255
17	37.637	84	60.98	138	62.63	13	75.15	307	25.103	71	78.55	22	13.651	45	60.31	273
26	(19) 37.721	50	62.36	120	(19) 62.76	5	78.22	297	(19) 25.174	41	78.33	40	(20) 13.696	4	63.04	279
Nov. 5	37.771	18	63.56	101	62.81	1	81.19	278	25.215	13	77.93	54	13.692	53	65.83	275
15	37.789	14	64.57	81	62.80	8	83.97	253	25.228	14	77.39	65	13.639	98	68.58	260
25	37.775	45	65.38	59	62.72	15	86.50	222	25.214	40	76.74	72	13.541	138	71.18	235
Dez. 5	37.730	74	65.97	35	62.57	22	88.72	183	25.174	64	76.02	76	13.403	172	73.53	201
15	37.656	101	66.32	11	62.35	27	90.55	139	25.110	86	75.26	78	13.231	202	75.54	161
25	37.555	125	66.43	13	62.08	32	91.94	90	25.024	105	74.48	77	13.029	225	77.15	115
35	37.430		66.30		61.76		92.84		24.919		73.71		12.804		78.30	
Mittl. Ort	32.464		39.28		54.68		56.86		20.609		55.38		9.672		81.78	
sec δ, tg δ	1.146		+0.561		2.231		+1.994		1.001		+0.050		1.456		−1.058	
a, *a′*	+3.4		+17.8		+4.3		+17.8		+3.1		+17.8		+2.4		+17.7	
b, *b′*	+0.03		− 0.46		+0.12		− 0.46		0.00		− 0.46		−0.06		− 0.47	

Scheinbare Sternörter 1938

Tag	66) β Arietis				68) χ Eridani				72) α Hydri				71) υ Ceti			
	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ
1938	$1^h\ 51^m$		$+20°\ 30'$		$1^h\ 53^m$		$-51°\ 54'$		$1^h\ 56^m$		$-61°\ 51'$		$1^h\ 57^m$		$-21°\ 22'$	
	s		"		s		"		s		"		s		"	
Jan. 0	14.215	121	29.67	45	33.804	273	75.08	80	50.03	39	90.55	71	6.318	136	43.92	97
10	14.094	135	29.22	60	33.531	285	75.88	26	49.64	41	91.26	14	6.182	149	44.89	67
20	13.959	145	28.62	74	33.246	288	76.14	27	49.23	42	91.40	45	6.033	157	45.56	35
30	13.814	148	27.88	84	32.958	283	75.87	80	48.81	40	90.95	101	5.876	159	45.91	2
Febr. 9	13.666	142	27.04	92	32.675	269	75.07	131	48.41	37	89.94	154	5.717	153	45.93	30
19	13.524	129	26.12	95	32.406	244	73.76	178	48.04	35	88.40	202	5.564	140	45.63	63
März 1	13.395	106	25.17	94	32.162	210	71.98	220	47.69	30	86.38	246	5.424	120	45.00	94
11	13.289	76	24.23	87	31.952	169	69.78	256	47.39	25	83.92	283	5.304	92	44.06	125
21	13.213	38	23.36	77	31.783	120	67.22	288	47.14	19	81.09	314	5.212	58	42.81	154
31	13.175	5	22.59	60	31.663	64	64.34	313	46.95	11	77.95	337	5.154	18	41.27	180
Apr. 10	13.180	51	21.99	40	31.599	3	61.21	331	46.84	4	74.58	353	5.136	25	39.47	203
20	13.231	99	21.59	16	31.596	60	57.90	342	46.80	4	71.05	362	5.161	70	37.44	223
30	13.330	146	21.43	9	31.656	123	54.48	345	46.84	13	67.43	361	5.231	117	35.21	238
Mai 10	13.476	191	21.52	37	31.779	185	51.03	342	46.97	20	63.82	354	5.348	162	32.83	249
20	13.667	231	21.89	64	31.964	242	47.61	329	47.17	27	60.28	338	5.510	203	30.34	254
30	13.898	265	22.53	91	32.206	295	44.32	310	47.44	35	56.90	314	5.713	238	27.80	254
Juni 9	14.163	293	23.44	114	32.501	340	41.22	282	47.79	40	53.76	282	5.951	269	25.26	246
19	14.456	312	24.58	136	32.841	375	38.40	248	48.19	44	50.94	244	6.220	292	22.80	232
29	14.768	322	25.94	152	33.216	401	35.92	206	48.63	49	48.50	198	6.512	306	20.48	213
Juli 9	15.090	326	27.46	166	33.617	415	33.86	160	49.12	51	46.52	147	6.818	313	18.35	186
19	15.416	320	29.12	174	34.032	418	32.26	108	49.63	51	45.05	91	7.131	312	16.49	156
29	15.736	309	30.86	178	34.450	410	31.18	53	50.14	51	44.14	34	7.443	304	14.93	121
Aug. 8	16.045	290	32.64	177	34.860	391	30.65	3	50.65	49	43.80	25	7.747	287	13.72	81
18	16.335	267	34.41	171	35.251	360	30.68	59	51.14	45	44.05	84	8.034	265	12.91	41
28	16.602	239	36.12	163	35.611	322	31.27	114	51.59	40	44.89	140	8.299	238	12.50	1
Sept. 7	16.841	209	37.75	151	35.933	275	32.41	163	51.99	35	46.29	191	8.537	207	12.51	41
17	17.050	178	39.26	137	36.208	223	34.04	208	52.34	27	48.20	236	8.744	173	12.92	79
27	17.228	145	40.63	120	36.431	166	36.12	244	52.61	20	50.56	272	8.917	138	13.71	113
Okt. 7	17.373	113	41.83	103	36.597	107	38.56	272	52.81	13	53.28	298	9.055	103	14.84	141
17	17.486	81	42.86	86	36.704	47	41.28	288	52.94	4	56.26	312	9.158	67	16.25	163
	20				20				21				21			
26	17.567	50	43.72	68	36.751	11	44.16	294	52.98	4	59.38	315	9.225	33	17.88	178
Nov. 5	17.617	19	44.40	49	36.740	66	47.10	287	52.94	11	62.53	306	9.258	1	19.66	185
15	17.636	10	44.89	32	36.674	117	49.97	270	52.83	18	65.59	285	9.259	30	21.51	184
25	17.626	38	45.21	15	36.557	163	52.67	243	52.65	25	68.44	252	9.229	59	23.35	175
Dez. 5	17.588	65	45.36	3	36.394	203	55.10	206	52.40	30	70.96	211	9.170	84	25.10	160
15	17.523	89	45.33	20	36.191	235	57.16	163	52.10	35	73.07	163	9.086	108	26.70	141
25	17.434	112	45.13	36	35.956	262	58.79	113	51.75	38	74.70	108	8.978	128	28.11	115
35	17.322		44.77		35.694		59.92		51.37		75.78		8.850		29.26	
Mittl. Ort	12.587		20.62		32.679		62.57		48.93		76.40		5.010		39.05	
sec δ, tg δ	1.068		+0.374		1.621		−1.276		2.121		−1.871		1.074		−0.391	
a, a'	+3.3		+17.7		+2.3		+17.6		+1.9		+17.5		+2.8		+17.5	
b, b'	+0.02		− 0.47		−0.07		− 0.48		−0.11		− 0.49		−0.02		− 0.49	

Tag	70) 50 Cassiopeiae AR.	Diff.	70) 50 Cassiopeiae Dekl.	Diff.	73) γ Andromedae AR.	Diff.	73) γ Andromedae Dekl.	Diff.	74) α Arietis AR.	Diff.	74) α Arietis Dekl.	Diff.	75) β Trianguli AR.	Diff.	75) β Trianguli Dekl.	Diff.
1938	$1^h\ 58^m$		$+72^\circ\ 7'$		$2^h\ 0^m$		$+42^\circ\ 1'$		$2^h\ 3^m$		$+23^\circ\ 10'$		$2^h\ 5^m$		$+34^\circ\ 41'$	
	s		″		s		″		s		″		s		″	
Jan. 0	9.81	54	42.31	92	7.105	167	74.05	11	42.102	119	22.03	35	52.746	140	54.55	5
10	9.27	58	43.23	35	6.938	188	74.16	26	41.983	138	21.68	52	52.606	162	54.50	33
20	8.69	60	43.58	25	6.750	202	73.90	61	41.845	150	21.16	68	52.444	175	54.17	61
30	8.09	60	43.33	82	6.548	206	73.29	94	41.695	154	20.48	81	52.269	181	53.56	88
Febr. 9	7.49	58	42.51	136	6.342	199	72.35	124	41.541	152	19.67	92	52.088	177	52.68	110
19	6.91	51	41.15	185	6.143	182	71.11	148	41.389	139	18.75	98	51.911	162	51.58	127
März 1	6.40	44	39.30	225	5.961	152	69.63	166	41.250	119	17.77	101	51.749	139	50.31	140
11	5.96	33	37.05	255	5.809	113	67.97	177	41.131	88	16.76	97	51.610	104	48.91	146
21	5.63	21	34.50	276	5.696	66	66.20	179	41.043	51	15.79	89	51.506	62	47.45	145
31	5.42	8	31.74	284	5.630	11	64.41	174	40.992	8	14.90	76	51.444	13	46.00	137
Apr. 10	5.34	5	28.90	283	5.619	48	62.67	161	40.984	39	14.14	57	51.431	40	44.63	123
20	5.39	20	26.07	269	5.667	108	61.06	141	41.023	89	13.57	35	51.471	94	43.40	102
30	5.59	33	23.38	247	5.775	167	59.65	115	41.112	137	13.22	10	51.565	148	42.38	77
Mai 10	5.92	45	20.91	216	5.942	223	58.50	85	41.249	183	13.12	17	51.713	200	41.61	48
20	6.37	56	18.75	178	6.165	272	57.65	50	41.432	225	13.29	44	51.913	246	41.13	17
30	6.93	65	16.97	135	6.437	315	57.15	14	41.657	262	13.73	71	52.159	286	40.96	15
Juni 9	7.58	73	15.62	88	6.752	348	57.01	22	41.919	291	14.44	97	52.445	318	41.11	48
19	8.31	78	14.74	39	7.100	373	57.23	58	42.210	312	15.41	119	52.763	342	41.59	79
29	9.09	82	14.35	11	7.473	388	57.81	92	42.522	325	16.60	139	53.105	356	42.38	107
Juli 9	9.91	83	14.46	61	7.861	392	58.73	124	42.847	330	17.99	154	53.461	362	43.45	132
19	10.74	83	15.07	108	8.253	389	59.97	151	43.177	328	19.53	165	53.823	358	44.77	154
29	11.57	80	16.15	153	8.642	376	61.48	176	43.505	317	21.18	172	54.181	348	46.31	172
Aug. 8	12.37	76	17.68	195	9.018	356	63.24	195	43.822	300	22.90	174	54.529	331	48.03	185
18	13.13	71	19.63	232	9.374	330	65.19	210	44.122	279	24.64	171	54.860	308	49.88	193
28	13.84	65	21.95	264	9.704	299	67.29	221	44.401	253	26.35	166	55.168	280	51.81	198
Sept. 7	14.49	57	24.59	291	10.003	265	69.50	226	44.654	224	28.01	157	55.448	248	53.79	199
17	15.06	48	27.50	312	10.268	227	71.76	227	44.878	193	29.58	144	55.696	216	55.78	195
27	15.54	39	30.62	326	10.495	189	74.03	225	45.071	161	31.02	131	55.912	180	57.73	188
Okt. 7	15.93	30	33.88	334	10.684	149	76.28	218	45.232	129	32.33	115	56.092	145	59.61	178
17	16.23	19	37.22	335	10.833	109	78.46	208	45.361	97	33.48	99	56.237	109	61.39	166
26	[21] 16.42	8	40.57	328	[22] 10.942	69	80.54	193	[23] 45.458	65	34.47	82	[23] 56.346	73	63.05	151
Nov. 5	16.50	2	43.85	313	11.011	29	82.47	175	45.523	33	35.29	65	56.419	37	64.56	134
15	16.48	13	46.98	292	11.040	10	84.22	153	45.556	2	35.94	47	56.456	2	65.90	114
25	16.35	23	49.90	261	11.030	50	85.75	127	45.558	27	36.41	30	56.458	33	67.04	91
Dez. 5	16.12	34	52.51	222	10.980	88	87.02	99	45.531	57	36.71	12	56.425	67	67.95	67
15	15.78	43	54.73	178	10.892	122	88.01	67	45.474	84	36.83	7	56.358	100	68.62	40
25	15.35	50	56.51	126	10.770	154	88.68	32	45.390	109	36.76	24	56.258	128	69.02	13
35	14.85		57.77		10.616		89.00		45.281		36.52		56.130		69.15	
Mittl. Ort	5.81		21.18		5.036		59.01		40.361		12.66		50.797		41.82	
sec δ, tg δ	3.257		+3.100		1.346		+0.901		1.088		+0.428		1.216		+0.692	
a, a′	+5.1		+17.4		+3.7		+17.4		+3.4		+17.2		+3.6		+17.1	
b, b′	+0.18		— 0.49		+0.05		— 0.50		+0.02		— 0.51		+0.04		— 0.52	

Scheinbare Sternörter 1938

Tag	76) 55 Cassiopeiae				78) Lac. μ Fornacis				80) 67 Ceti				85) ξ² Ceti			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	2h 9m		+66° 14′		2h 10m		−31° 0′		2h 13m		−6° 42′		2h 24m		+8° 10′	
	s		″		s		″		s		″		s		″	
Jan. 0	38.77	38	26.20	88	12.028	158	58.53	110	54.851	112	26.25	93	53.251	102	62.93	65
10	38.39	41	27.08	36	11.870	174	59.63	71	54.739	129	27.18	77	53.149	123	62.28	66
20	37.98	44	27.44	20	11.696	184	60.34	30	54.610	140	27.95	59	53.026	138	61.62	64
30	37.54	45	27.24	74	11.512	187	60.64	11	54.470	146	28.54	40	52.888	146	60.98	60
Febr. 9	37.09	43	26.50	124	11.325	182	60.53	51	54.324	145	28.94	20	52.742	147	60.38	55
19	36.66	39	25.26	170	11.143	170	60.02	91	54.179	136	29.14	2	52.595	139	59.83	48
März 1	36.27	34	23.56	209	10.973	149	59.11	128	54.043	119	29.12	24	52.456	124	59.35	37
11	35.93	26	21.47	237	10.824	121	57.83	163	53.924	94	28.88	47	52.332	99	58.98	24
21	35.67	17	19.10	257	10.703	85	56.20	195	53.830	62	28.41	71	52.233	68	58.74	9
31	35.50	8	16.53	266	10.618	44	54.25	223	53.768	25	27.70	96	52.165	29	58.65	10
Apr. 10	35.42	3	13.87	264	10.574	1	52.02	247	53.743	17	26.74	119	52.136	13	58.75	30
20	35.45	14	11.23	252	10.575	50	49.55	266	53.760	61	25.55	141	52.149	58	59.05	51
30	35.59	24	8.71	232	10.625	100	46.89	279	53.821	106	24.14	161	52.207	105	59.56	74
Mai 10	35.83	34	6.39	203	10.725	148	44.10	287	53.927	150	22.53	178	52.312	149	60.30	95
20	36.17	43	4.36	166	10.873	193	41.23	288	54.077	190	20.75	192	52.461	190	61.25	115
30	36.60	50	2.70	125	11.066	233	38.35	282	54.267	226	18.83	202	52.651	226	62.40	134
Juni 9	37.10	56	1.45	82	11.299	268	35.53	269	54.493	255	16.81	206	52.877	257	63.74	149
19	37.66	61	0.63	35	11.567	296	32.84	250	54.748	278	14.75	205	53.134	281	65.23	159
29	38.27	64	0.28	12	11.863	314	30.34	223	55.026	294	12.70	198	53.415	297	66.82	165
Juli 9	38.91	65	0.40	58	12.177	326	28.11	190	55.320	301	10.72	186	53.712	305	68.47	168
19	39.56	66	0.98	103	12.503	328	26.21	152	55.621	301	8.86	169	54.017	307	70.15	165
29	40.22	64	2.01	145	12.831	322	24.69	110	55.922	295	7.17	147	54.324	301	71.80	156
Aug. 8	40.86	61	3.46	184	13.153	308	23.59	64	56.217	282	5.70	120	54.625	288	73.36	145
18	41.47	57	5.30	218	13.461	288	22.95	16	56.499	262	4.50	91	54.913	271	74.81	129
28	42.04	53	7.48	248	13.749	260	22.79	31	56.761	240	3.59	59	55.184	250	76.10	109
Sept. 7	42.57	47	9.96	272	14.009	229	23.10	77	57.001	213	3.00	27	55.434	224	77.19	89
17	43.04	40	12.68	291	14.238	194	23.87	121	57.214	183	2.73	6	55.658	197	78.08	67
27	43.44	34	15.59	305	14.432	156	25.08	158	57.397	152	2.79	35	55.855	168	78.75	44
Okt. 7	43.78	27	18.64	312	14.588	116	26.66	189	57.549	122	3.14	61	56.023	138	79.19	23
17	44.05	19	21.76	312	14.704	78	28.55	212	57.671	90	3.75	84	56.161	109	79.42	3
26*)	24 44.24	10	24.88	306	24 14.782	39	30.67	226	25 57.761	60	4.59	102	56.270	79	79.45	14
Nov. 5	44.34	3	27.94	293	14.821	1	32.93	232	57.821	30	5.61	115	28 56.349	49	79.31	29
15	44.37	5	30.87	273	14.822	33	35.25	227	57.851	0	6.76	121	56.398	20	79.02	41
25	44.32	13	33.60	244	14.789	67	37.52	214	57.851	27	7.97	123	56.418	10	78.61	51
Dez. 5	44.19	21	36.04	210	14.722	98	39.66	194	57.824	54	9.20	120	56.408	38	78.10	57
15	43.98	28	38.14	168	14.624	125	41.60	166	57.770	80	10.40	112	56.370	66	77.53	62
25	43.70	35	39.82	120	14.499	148	43.26	133	57.690	102	11.52	101	56.304	91	76.91	65
35	43.35		41.02		14.351		44.59		57.588		12.53		56.213		76.26	
Mittl. Ort	35.35		6.60		10.698		50.69		53.355		25.59		51.566		59.19	
sec δ, tg δ	2.482		+2.271		1.167		−0.601		1.007		−0.118		1.010		+0.144	
a, *a*′	+4.7		+16.9		+2.6		+16.9		+3.0		+16.7		+3.2		+16.2	
b, *b*′	+0.13		−0.54		−0.03		−0.54		−0.01		−0.55		+0.01		−0.59	

*) Bei Stern 85) lies Okt. 27.

Tag	87) 36 H. Cassiopeiae AR.		Dekl.		90) μ Hydri AR.		Dekl.	
1938	$2^h\ 32^m$		$+72°\ 32'$		$2^h\ 32^m$		$-79°\ 22'$	
	s		"		s		"	
Jan. 0	10.29	50	74.90	133	58.23	116	63.72	95
10	9.79	57	76.23	78	57.07	122	64.67	34
20	9.22	61	77.01	20	55.85	125	65.01	27
30	8.61	63	77.21	37	54.60	123	64.74	86
Febr. 9	7.98	62	76.84	93	53.37	120	63.88	142
19	7.36	58	75.91	146	52.17	112	62.46	194
März 1	6.78	52	74.45	191	51.05	102	60.52	239
11	6.26	42	72.54	229	50.03	90	58.13	279
21	5.84	31	70.25	256	49.13	75	55.34	311
31	5.53	19	67.69	274	48.38	59	52.23	337
Apr. 10	5.34	5	64.95	281	47.79	42	48.86	355
20	5.29	10	62.14	276	47.37	22	45.31	364
30	5.39	24	59.38	262	47.15	3	41.67	366
Mai 10	5.63	37	56.76	240	47.12	17	38.01	360
20	6.00	49	54.36	208	47.29	36	34.41	345
30	6.49	60	52.28	171	47.65	54	30.96	322
Juni 9	7.09	69	50.57	129	48.19	70	27.74	291
19	7.78	76	49.28	84	48.89	86	24.83	253
29	8.54	81	48.44	36	49.75	97	22.30	208
Juli 9	9.35	84	48.08	11	50.72	108	20.22	157
19	10.19	86	48.19	59	51.80	114	18.65	102
29	11.05	85	48.78	105	52.94	116	17.63	42
Aug. 8	11.90	83	49.83	148	54.10	116	17.21	18
18	12.73	79	51.31	187	55.26	111	17.39	79
28	13.52	74	53.18	223	56.37	104	18.18	137
Sept. 7	14.26	67	55.41	254	57.41	91	19.55	192
17	14.93	60	57.95	281	58.32	77	21.47	240
27	15.53	51	60.76	301	59.09	59	23.87	280
Okt. 7	16.04	41	63.77	315	59.68	39	26.67	310
17	16.45	32	66.92	324	60.07	18	29.77	328
27	30 16.77	21	70.16	324	30 60.25	4	33.05	334
Nov. 5	16.98	9	73.40	317	60.21	26	36.39	327
15	17.07	2	76.57	303	59.95	47	39.66	309
25	17.05	14	79.60	280	59.48	67	42.75	277
Dez. 5	16.91	25	82.40	249	58.81	84	45.52	236
15	16.66	36	84.89	210	57.97	99	47.88	187
25	16.30	45	86.99	164	56.98	110	49.75	132
35	15.85		88.63		55.88		51.07	
Mittl. Ort	5.51		56.00		56.29		48.21	
sec δ, tg δ	3.335		+3.181		5.426		−5.333	
a, *a'*	+5.7		+15.8		−1.3		+15.7	
b, *b'*	+0.17		− 0.62		−0.28		− 0.62	

Tag	89) ν Arietis AR.		Dekl.		91) δ Ceti AR.		Dekl.	
1938	$2^h\ 35^m$		$+21°\ 41'$		$2^h\ 36^m$		$+0°\ 3'$	
	s		"		s		"	
Jan. 0	19.345	105	47.16	27	19.800	101	43.95	85
10	19.240	129	46.89	41	19.699	121	43.10	76
20	19.111	148	46.48	54	19.578	137	42.34	65
30	18.963	159	45.94	65	19.441	148	41.69	52
Febr. 9	18.804	161	45.29	74	19.293	151	41.17	39
19	18.643	155	44.55	81	19.142	145	40.78	23
März 1	18.488	140	43.74	84	18.997	131	40.55	6
11	18.348	114	42.90	82	18.866	109	40.49	12
21	18.234	80	42.08	76	18.757	79	40.61	32
31	18.154	39	41.32	65	18.678	42	40.93	54
Apr. 10	18.115	6	40.67	50	18.636	2	41.47	75
20	18.121	54	40.17	32	18.634	43	42.22	98
30	18.175	104	39.85	10	18.677	88	43.20	118
Mai 10	18.279	152	39.75	14	18.765	133	44.38	138
20	18.431	196	39.89	38	18.898	175	45.76	155
30	18.627	235	40.27	62	19.073	211	47.31	169
Juni 9	18.862	268	40.89	85	19.284	244	49.00	178
19	19.130	295	41.74	105	19.528	269	50.78	183
29	19.425	312	42.79	123	19.797	286	52.61	183
Juli 9	19.737	322	44.02	136	20.083	298	54.44	177
19	20.059	325	45.38	147	20.381	301	56.21	167
29	20.384	320	46.85	152	20.682	297	57.88	151
Aug. 8	20.704	309	48.37	154	20.979	287	59.39	132
18	21.013	292	49.91	151	21.266	272	60.71	108
28	21.305	272	51.42	145	21.538	252	61.79	82
Sept. 7	21.577	246	52.87	135	21.790	228	62.61	55
17	21.823	219	54.22	124	22.018	202	63.16	26
27	22.042	191	55.46	111	22.220	174	63.42	1
Okt. 7	22.233	160	56.57	97	22.394	145	63.41	26
17	22.393	130	57.54	82	22.539	116	63.15	48
27	31 22.523	99	58.36	67	31 22.655	86	62.67	66
Nov. 5	22.622	67	59.03	52	22.741	55	62.01	81
15	22.689	34	59.55	38	22.796	26	61.20	90
25	22.723	2	59.93	24	22.822	4	60.30	95
Dez. 5	22.725	30	60.17	10	22.818	33	59.35	97
15	22.695	62	60.27	5	22.785	61	58.38	95
25	22.633	91	60.22	19	22.724	88	57.43	89
35	22.542		60.03		22.636		56.54	
Mittl. Ort	17.432		39.72		18.132		43.17	
sec δ, tg δ	1.076		+0.398		1.000		+0.001	
a, *a'*	+3.4		+15.6		+3.1		+15.6	
b, *b'*	+0.02		− 0.63		0.00		− 0.63	

Scheinbare Sternörter 1938

Tag	93) ϑ Persei AR.	Diff.	93) ϑ Persei Dekl.	Diff.	97) π Ceti AR.	Diff.	97) π Ceti Dekl.	Diff.	98) μ Ceti AR.	Diff.	98) μ Ceti Dekl.	Diff.	100) 41 Arietis AR.	Diff.	100) 41 Arietis Dekl.	Diff.
1938	$2^h\ 39^m$		$+48°\ 57'$		$2^h\ 41^m$		$-14°\ 6'$		$2^h\ 41^m$		$+9°\ 51'$		$2^h\ 46^m$		$+27°\ 0'$	
Jan. 0	59.819	172	77.29	64	11.831	112	76.76	115	37.010	95	15.84	60	21.778	105	30.54	6
10	59.647	207	77.93	26	11.719	133	77.91	91	36.915	119	15.24	62	21.673	133	30.48	25
20	59.440	234	78.19	14	11.586	149	78.82	67	36.796	137	14.62	61	21.540	155	30.23	43
30	59.206	248	78.05	54	11.437	160	79.49	39	36.659	148	14.01	59	21.385	168	29.80	60
Febr. 9	58.958	251	77.51	92	11.277	163	79.88	11	36.511	153	13.42	56	21.217	173	29.20	75
19	58.707	239	76.59	125	11.114	157	79.99	17	36.358	148	12.86	50	21.044	168	28.45	87
März 1	58.468	215	75.34	154	10.957	144	79.82	46	36.210	134	12.36	42	20.876	153	27.58	96
11	58.253	177	73.80	175	10.813	122	79.36	74	36.076	112	11.94	31	20.723	128	26.62	99
21	58.076	129	72.05	189	10.691	93	78.62	101	35.964	81	11.63	17	20.595	94	25.63	99
31	57.947	70	70.16	196	10.598	56	77.61	129	35.883	44	11.46	1	20.501	53	24.64	92
Apr. 10	57.877	6	68.20	193	10.542	15	76.32	153	35.839	2	11.45	18	20.448	5	23.72	80
20	57.870	62	66.27	182	10.527	29	74.79	176	35.837	43	11.63	38	20.443	46	22.92	64
30	57.932	130	64.45	164	10.556	75	73.03	195	35.880	90	12.01	60	20.489	97	22.28	45
Mai 10	58.062	195	62.81	141	10.631	120	71.08	212	35.970	135	12.61	81	20.586	147	21.83	21
20	58.257	255	61.40	112	10.751	163	68.96	223	36.105	178	13.42	101	20.733	194	21.62	3
30	58.512	309	60.28	79	10.914	202	66.73	229	36.283	216	14.43	119	20.927	236	21.65	28
Juni 9	58.821	355	59.49	44	11.116	236	64.44	230	36.499	249	15.62	136	21.163	271	21.93	53
19	59.176	390	59.05	8	11.352	263	62.14	225	36.748	274	16.98	147	21.434	299	22.46	76
29	59.566	415	58.97	29	11.615	284	59.89	213	37.022	293	18.45	155	21.733	320	23.22	98
Juli 9	59.981	430	59.26	63	11.899	296	57.76	196	37.315	304	20.00	158	22.053	332	24.20	116
19	60.411	435	59.89	97	12.195	301	55.80	173	37.619	307	21.58	157	22.385	336	25.36	131
29	60.846	431	60.86	127	12.496	300	54.07	144	37.926	304	23.15	152	22.721	333	26.67	141
Aug. 8	61.277	419	62.13	153	12.796	291	52.63	112	38.230	295	24.67	141	23.054	324	28.08	149
18	61.696	399	63.66	177	13.087	277	51.51	76	38.525	279	26.08	127	23.378	309	29.57	151
28	62.095	372	65.43	195	13.364	257	50.75	38	38.804	261	27.35	110	23.687	288	31.08	150
Sept. 7	62.467	341	67.38	211	13.621	233	50.37	1	39.065	237	28.45	91	23.975	265	32.58	147
17	62.808	306	69.49	221	13.854	206	50.38	37	39.302	212	29.36	70	24.240	238	34.05	140
27	63.114	267	71.70	227	14.060	177	50.75	73	39.514	185	30.06	48	24.478	209	35.45	131
Okt. 7	63.381	226	73.97	230	14.237	146	51.48	104	39.699	156	30.54	28	24.687	179	36.76	120
17	63.607	183	76.27	228	14.383	115	52.52	130	39.855	127	30.82	10	24.866	148	37.96	109
27	63.790	138	78.55	222	14.498	83	53.82	149	39.982	97	30.92	8	[3]25.014	116	39.05	96
Nov. 5	[1]63.928	90	80.77	211	[1]14.581	51	55.31	162	[1]40.079	68	30.84	23	25.130	83	40.01	83
15	64.018	41	82.88	196	14.632	19	56.93	167	40.147	37	30.61	34	25.213	48	40.84	69
25	64.059	8	84.84	175	14.651	12	58.60	167	40.184	6	30.27	43	25.261	13	41.53	54
Dez. 5	64.051	58	86.59	150	14.639	43	60.27	159	40.190	24	29.84	51	25.274	23	42.07	39
15	63.993	106	88.09	121	14.596	72	61.86	146	40.166	54	29.33	56	25.251	57	42.46	22
25	63.887	151	89.30	87	14.524	99	63.32	129	40.112	83	28.77	59	25.194	90	42.68	4
35	63.736		90.17		14.425		64.61		40.029		28.18		25.104		42.72	
Mittl. Ort	57.187		62.97		10.244		73.15		35.218		12.25		19.712		22.15	
sec δ, tg δ	1.523		+1.149		1.031		−0.252		1.015		+0.174		1.122		+0.510	
a, *a'*	+4.1		+15.4		+2.9		+15.3		+3.2		+15.3		+3.5		+15.0	
b, *b'*	+0.06		− 0.64		−0.01		− 0.65		+0.01		− 0.65		+0.03		− 0.66	

Obere Kulmination Greenwich

Tag	101) β Fornacis AR.	Δ	Dekl.	Δ	102) τ² Eridani AR.	Δ	Dekl.	Δ	103) τ Persei AR.	Δ	Dekl.	Δ	104) η Eridani AR.	Δ	Dekl.	Δ
1938	2h 46m		−32° 39′		2h 48m		−21° 15′		2h 49m		+52° 30′		2h 53m		−9° 8′	
	s		″		s		″		s		″		s		″	
Jan. 0	31.231	153	64.42	142	15.116	121	37.79	131	53.770	185	51.08	85	25.505	100	40.68	111
10	31.078	176	65.84	103	14.995	145	39.10	101	53.585	225	51.93	45	25.405	124	41.79	93
20	30.902	193	66.87	61	14.850	162	40.11	69	53.360	255	52.38	2	25.281	143	42.72	72
30	30.709	203	67.48	17	14.688	173	40.80	35	53.105	274	52.40	40	25.138	155	43.44	50
Febr. 9	30.506	205	67.65	26	14.515	176	41.15	0	52.831	279	52.00	81	24.983	161	43.94	26
19	30.301	199	67.39	68	14.339	172	41.15	34	52.552	269	51.19	118	24.822	158	44.20	2
März 1	30.102	184	66.71	108	14.167	159	40.81	68	52.283	245	50.01	151	24.664	146	44.22	23
11	29.918	159	65.63	147	14.008	137	40.13	101	52.038	206	48.50	177	24.518	127	43.99	48
21	29.759	127	64.16	182	13.871	108	39.12	132	51.832	155	46.73	196	24.391	98	43.51	74
31	29.632	88	62.34	214	13.763	71	37.80	161	51.677	94	44.77	205	24.293	63	42.77	99
Apr. 10	29.544	43	60.20	241	13.692	29	36.19	187	51.583	26	42.72	206	24.230	23	41.78	122
20	29.501	6	57.79	263	13.663	16	34.32	211	51.557	47	40.66	199	24.207	21	40.56	145
30	29.507	56	55.16	281	13.679	63	32.21	229	51.604	120	38.67	185	24.228	66	39.11	166
Mai 10	29.563	107	52.35	291	13.742	110	29.92	244	51.724	191	36.82	163	24.294	111	37.45	184
20	29.670	155	49.44	296	13.852	154	27.48	254	51.915	257	35.19	135	24.405	154	35.61	197
30	29.825	200	46.48	294	14.006	195	24.94	256	52.172	315	33.84	103	24.559	194	33.64	206
Juni 9	30.025	240	43.54	284	14.201	232	22.38	253	52.487	366	32.81	69	24.753	228	31.58	211
19	30.265	272	40.70	266	14.433	261	19.85	244	52.853	406	32.12	32	24.981	255	29.47	210
29	30.537	298	38.04	242	14.694	283	17.41	227	53.259	436	31.80	6	25.236	277	27.37	203
Juli 9	30.835	317	35.62	211	14.977	299	15.14	204	53.695	454	31.86	43	25.513	291	25.34	190
19	31.152	325	33.51	174	15.276	306	13.10	176	54.149	462	32.29	77	25.804	298	23.44	171
29	31.477	327	31.77	131	15.582	306	11.34	142	54.611	461	33.06	110	26.102	297	21.73	148
Aug. 8	31.804	320	30.46	84	15.888	299	9.92	103	55.072	451	34.16	141	26.399	291	20.25	120
18	32.124	306	29.62	35	16.187	285	8.89	61	55.523	431	35.57	167	26.690	278	19.05	88
28	32.430	285	29.27	16	16.472	267	8.28	18	55.954	406	37.24	189	26.968	261	18.17	55
Sept. 7	32.715	260	29.43	65	16.739	243	8.10	25	56.360	375	39.13	207	27.229	239	17.62	19
17	32.975	228	30.08	112	16.982	216	8.35	67	56.735	339	41.20	222	27.468	214	17.43	16
27	33.203	194	31.20	156	17.198	185	9.02	106	57.074	299	43.42	233	27.682	187	17.59	49
Okt. 7	33.397	157	32.76	191	17.383	154	10.08	139	57.373	256	45.75	238	27.869	158	18.08	79
17	33.554	118	34.67	220	17.537	120	11.47	168	57.629	209	48.13	239	28.027	128	18.87	104
27	33.672	80	36.87	241	17.657	86	13.15	188	57.838	161	50.52	237	28.155	98	19.91	124
Nov. 5	^{3}33.752	40	39.28	250	^{3}17.743	52	15.03	200	^{3}57.999	109	52.89	228	^{4}28.253	67	21.15	138
15	33.792	1	41.78	250	17.795	19	17.03	204	58.108	55	55.17	215	28.320	35	22.53	147
25	33.793	37	44.28	242	17.814	15	19.07	201	58.163	1	57.32	196	28.355	4	24.00	148
Dez. 5	33.756	73	46.70	223	17.799	48	21.08	190	58.164	55	59.28	172	28.359	27	25.48	144
15	33.683	107	48.93	197	17.751	79	22.98	171	58.109	110	61.00	143	28.332	58	26.92	135
25	33.576	138	50.90	166	17.672	108	24.69	148	57.999	160	62.43	108	28.274	86	28.27	122
35	33.438		52.56		17.564		26.17		57.839		63.51		28.188		29.49	
Mittl. Ort	29.699		55.79		13.532		32.05		50.888		36.71		23.825		38.21	
sec δ, tg δ	1.188		−0.641		1.073		−0.389		1.643		+1.304		1.013		−0.161	
a, *a′*	+2.5		+15.0		+2.7		+14.9		+4.2		+14.8		+2.9		+14.6	
b, *b′*	−0.03		−0.66		−0.02		−0.67		+0.06		−0.68		−0.01		−0.69	

Tag	106) ϑ Eridani AR.		106) ϑ Eridani Dekl.		105) 47 H. Cephei AR.		105) 47 H. Cephei Dekl.		107) α Ceti AR.		107) α Ceti Dekl.		108) γ Persei AR.		108) γ Persei Dekl.	
1938	$2^h\ 55^m$		$-40°\ 32'$		$2^h\ 57^m$		$+79°\ 10'$		$2^h\ 59^m$		$+3°\ 50'$		$3^h\ 0^m$		$+53°\ 15'$	
Jan. 0	$56^s.045$	180	$78''.53$	157	$53^s.43$	78	$53''.24$	181	$3^s.950$	89	$52''.36$	79	$20^s.531$	179	$68''.31$	96
10	55.865	208	80.10	112	52.65	91	55.05	126	3.861	115	51.57	72	20.352	223	69.27	57
20	55.657	227	81.22	64	51.74	100	56.31	68	3.746	134	50.85	65	20.129	257	69.84	15
30	55.430	239	81.86	16	50.74	105	56.99	7	3.612	150	50.20	57	19.872	280	69.99	$\overline{27}$
Febr. 9	55.191	241	82.02	$\overline{33}$	49.69	105	57.06	$\overline{53}$	3.462	156	49.63	46	19.592	287	69.72	70
19	54.950	236	81.69	79	48.64	101	56.53	111	3.306	155	49.17	35	19.305	281	69.02	109
März 1	54.714	220	80.90	125	47.63	93	55.42	165	3.151	144	48.82	21	19.024	259	67.93	142
11	54.494	194	79.65	167	46.70	79	53.77	210	3.007	124	48.61	5	18.765	221	66.51	170
21	54.300	160	77.98	205	45.91	63	51.67	247	2.883	96	48.56	$\overline{11}$	18.544	172	64.81	191
31	54.140	119	75.93	238	45.28	44	49.20	273	2.787	62	48.67	30	18.372	111	62.90	204
Apr. 10	54.021	71	73.55	267	44.84	23	46.47	289	2.725	21	48.97	50	18.261	42	60.86	207
20	53.950	18	70.88	290	44.61	2	43.58	295	2.704	$\overline{23}$	49.47	71	18.219	$\overline{31}$	58.79	202
30	53.932	$\overline{36}$	67.98	306	44.59	$\overline{21}$	40.63	288	2.727	69	50.18	91	18.250	105	56.77	190
Mai 10	53.968	91	64.92	317	44.80	43	37.75	273	2.796	114	51.09	111	18.355	178	54.87	171
20	54.059	145	61.75	319	45.23	63	35.02	249	2.910	157	52.20	128	18.533	246	53.16	145
30	54.204	194	58.56	314	45.86	81	32.53	217	3.067	197	53.48	144	18.779	307	51.71	115
Juni 9	54.398	239	55.42	302	46.67	97	30.36	178	3.264	230	54.92	156	19.086	360	50.56	81
19	54.637	278	52.40	281	47.64	110	28.58	136	3.494	258	56.48	164	19.446	403	49.75	45
29	54.915	308	49.59	253	48.74	120	27.22	90	3.752	279	58.12	167	19.849	436	49.30	9
Juli 9	55.223	331	47.06	218	49.94	128	26.32	42	4.031	293	59.79	165	20.285	457	49.21	$\overline{27}$
19	55.554	345	44.88	176	51.22	132	25.90	$\overline{7}$	4.324	300	61.44	159	20.742	468	49.48	63
29	55.899	349	43.12	129	52.54	133	25.97	55	4.624	299	63.03	147	21.210	470	50.11	96
Aug. 8	56.248	345	41.83	78	53.87	132	26.52	102	4.923	293	64.50	132	21.680	461	51.07	127
18	56.593	332	41.05	24	55.19	129	27.54	146	5.216	281	65.82	112	22.141	444	52.34	154
28	56.925	313	40.81	$\overline{32}$	56.48	122	29.00	188	5.497	264	66.94	89	22.585	422	53.88	178
Sept. 7	57.238	285	41.13	85	57.70	114	30.88	225	5.761	243	67.83	65	23.007	392	55.66	197
17	57.523	253	41.98	136	58.84	104	33.13	259	6.004	220	68.48	40	23.399	358	57.63	214
27	57.776	216	43.34	182	59.88	91	35.72	287	6.224	195	68.88	14	23.757	318	59.77	226
Okt. 7	57.992	175	45.16	221	60.79	77	38.59	309	6.419	168	69.02	$\overline{10}$	24.075	276	62.03	234
17	58.167	131	47.37	251	61.56	61	41.68	325	6.587	140	68.92	30	24.351	230	64.37	237
27	58.298	87	49.88	272	62.17	43	44.93	335	6.727	110	68.62	49	24.581	181	66.74	236
Nov. 5*)	5 58.385	42	52.60	282	5 62.60	26	48.28	335	6 6.837	81	68.13	63	6 24.762	128	69.10	229
15	58.427	$\overline{4}$	55.42	281	62.86	6	51.63	329	6.918	50	67.50	74	24.890	73	71.39	219
25	58.423	47	58.23	271	62.92	$\overline{14}$	54.92	312	6.968	19	66.76	81	24.963	16	73.58	202
Dez. 5	58.376	89	60.94	249	62.78	34	58.04	288	6.987	$\overline{13}$	65.95	84	24.979	$\overline{41}$	75.60	180
15	58.287	127	63.43	220	62.44	52	60.92	253	6.974	44	65.11	83	24.938	99	77.40	152
25	58.160	163	65.63	183	61.92	69	63.45	210	6.930	75	64.28	82	24.839	153	78.92	119
35	57.997		67.46		61.23		65.55		6.855		63.46		24.686		80.11	
Mittl. Ort	54.471		68.10		45.56		35.73		2.133		51.23		17.518		54.56	
sec δ, tg δ	1.316		−0.856		5.325		+5.231		1.002		+0.067		1.672		+1.340	
a, *a′*	+2.3		+14.4		+8.0		+14.3		+3.1		+14.2		+4.3		+14.2	
b, *b′*	−0.04		−0.69		+0.25		−0.70		0.00		−0.70		+0.06		−0.71	

*) Bei Stern 107) und 108) lies Nov. 6.

Tag	109) ρ Persei AR.		109) ρ Persei Dekl.		110) μ Horologii AR.		110) μ Horologii Dekl.		111) β Persei AR.		111) β Persei Dekl.		114) δ Arietis AR.		114) δ Arietis Dekl.	
1938	3h 1m		+38° 36′		3h 2m		−59° 58′		3h 4m		+40° 43′		3h 8m		+19° 29′	
Jan. 0	14.153s	119	15.60″	43	10.581s	338	53.76″	162	10.086s	122	16.29″	52	6.808s	86	41.80″	26
10	14.034	153	16.03	15	10.243	376	55.38	109	9.964	159	16.81	23	6.722	116	41.54	35
20	13.881	180	16.18	15	9.867	401	56.47	51	9.805	187	17.04	7	6.606	139	41.19	44
30	13.701	199	16.03	43	9.466	414	56.98	6	9.618	207	16.97	38	6.467	157	40.75	52
Febr. 9	13.502	207	15.60	70	9.052	415	56.92	63	9.411	216	16.59	68	6.310	166	40.23	59
19	13.295	204	14.90	95	8.637	403	56.29	117	9.195	213	15.91	95	6.144	166	39.64	63
März 1	13.091	189	13.95	116	8.234	377	55.12	167	8.982	198	14.96	118	5.978	155	39.01	66
11	12.902	162	12.79	132	7.857	339	53.45	213	8.784	170	13.78	135	5.823	136	38.35	64
21	12.740	124	11.47	140	7.518	292	51.32	254	8.614	133	12.43	147	5.687	106	37.71	59
31	12.616	78	10.07	144	7.226	231	48.78	288	8.481	84	10.96	152	5.581	69	37.12	51
Apr. 10	12.538	25	8.63	141	6.995	163	45.90	317	8.397	31	9.44	149	5.512	26	36.61	38
20	12.513	31	7.22	130	6.832	91	42.73	337	8.366	28	7.95	141	5.486	21	36.23	23
30	12.544	90	5.92	114	6.741	14	39.36	351	8.394	87	6.54	126	5.507	70	36.00	3
Mai 10	12.634	147	4.78	94	6.727	66	35.85	356	8.481	146	5.28	106	5.577	118	35.97	16
20	12.781	200	3.84	69	6.793	143	32.29	354	8.627	202	4.22	82	5.695	164	36.13	37
30	12.981	249	3.15	42	6.936	216	28.75	342	8.829	252	3.40	55	5.859	206	36.50	58
Juni 9	13.230	291	2.73	13	7.152	285	25.33	323	9.081	295	2.85	25	6.065	242	37.08	78
19	13.521	325	2.60	16	7.437	345	22.10	294	9.376	331	2.60	4	6.307	272	37.86	95
29	13.846	349	2.76	44	7.782	396	19.16	259	9.707	357	2.64	33	6.579	294	38.81	111
Juli 9	14.195	366	3.20	71	8.178	435	16.57	215	10.064	374	2.97	62	6.873	309	39.92	122
19	14.561	375	3.91	95	8.613	464	14.42	165	10.438	383	3.59	88	7.182	317	41.14	129
29	14.936	374	4.86	117	9.077	478	12.77	110	10.821	384	4.47	110	7.499	318	42.43	133
Aug. 8	15.310	366	6.03	134	9.555	479	11.67	52	11.205	377	5.57	131	7.817	312	43.76	134
18	15.676	353	7.37	149	10.034	467	11.15	9	11.582	363	6.88	147	8.129	301	45.10	129
28	16.029	334	8.86	159	10.501	442	11.24	71	11.945	344	8.35	160	8.430	285	46.39	121
Sept. 7	16.363	310	10.45	167	10.943	406	11.95	130	12.289	321	9.95	169	8.715	265	47.60	112
17	16.673	282	12.12	171	11.349	358	13.25	185	12.610	293	11.64	176	8.980	242	48.72	99
27	16.955	252	13.83	172	11.707	301	15.10	233	12.903	262	13.40	178	9.222	218	49.71	85
Okt. 7	17.207	220	15.55	170	12.008	236	17.43	274	13.165	229	15.18	178	9.440	190	50.56	72
17	17.427	186	17.25	166	12.244	165	20.17	304	13.394	194	16.96	176	9.630	162	51.28	58
27	17.613	149	18.91	159	12.409	92	23.21	324	13.588	156	18.72	170	9.792	133	51.86	44
Nov. 6	[6] 17.762	110	20.50	149	[7] 12.501	17	26.45	330	[7] 13.744	116	20.42	161	[8] 9.925	101	52.30	31
15	17.872	70	21.99	137	12.518	58	29.75	325	13.860	74	22.03	149	10.026	68	52.61	20
25	17.942	28	23.36	122	12.460	129	33.00	308	13.934	31	23.52	134	10.094	35	52.81	9
Dez. 5	17.970	16	24.58	104	12.331	196	36.08	278	13.965	14	24.86	116	10.129	0	52.90	0
15	17.954	57	25.62	82	12.135	257	38.86	241	13.951	59	26.02	95	10.129	35	52.90	11
25	17.897	93	26.44	59	11.878	310	41.27	195	13.892	101	26.97	69	10.094	70	52.79	20
35	17.804		27.03		11.568		43.22		13.791		27.66		10.024		52.59	
Mittl. Ort	11.726		5.10		8.866		40.15		7.577		5.48		4.751		36.65	
sec δ, tg δ	1.280		+0.798		1.999		−1.731		1.319		+0.861		1.061		+0.354	
a, *a′*	+3.8		+14.1		+1.4		+14.0		+3.9		+13.9		+3.4		+13.7	
b, *b′*	+0.04		− 0.71		−0.08		− 0.71		+0.04		− 0.72		+0.02		− 0.73	

Scheinbare Sternörter 1938

Tag	117) 12 Eridani		115) 48 H. Cephei		120) α Persei		121) ο Tauri	
	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.	AR.	Dekl.
1938	$3^h\ 9^m$	$-29°\ 13'$	$3^h\ 12^m$	$+77°\ 30'$	$3^h\ 19^m$	$+49°\ 38'$	$3^h\ 21^m$	$+8°\ 48'$
	s	"	s	"	s	"	s	"
Jan. 0	27.797 131	58.08 157	29.91 62	52.02 190	56.073 140	43.13 97	30.406 76	44.37 63
10	27.666 158	59.65 121	29.29 74	53.92 139	55.933 187	44.10 63	30.330 106	43.74 62
20	27.508 180	60.86 82	28.55 84	55.31 83	55.746 224	44.73 26	30.224 131	43.12 59
30	27.328 195	61.68 40	27.71 89	56.14 24	55.522 250	44.99 12	30.093 149	42.53 55
Febr. 9	27.133 202	62.08 1	26.82 91	56.38 36	55.272 264	44.87 50	29.944 161	41.98 50
19	26.931 200	62.07 41	25.91 89	56.02 93	55.008 263	44.37 87	29.783 163	41.48 43
März 1	26.731 189	61.66 81	25.02 83	55.09 147	54.745 249	43.50 119	29.620 156	41.05 34
11	26.542 169	60.85 120	24.19 72	53.62 194	54.496 220	42.31 147	29.464 138	40.71 24
21	26.373 140	59.65 155	23.47 59	51.68 232	54.276 177	40.84 167	29.326 113	40.47 12
31	26.233 104	58.10 188	22.88 43	49.36 262	54.099 124	39.17 180	29.213 80	40.35 3
Apr. 10	26.129 62	56.22 217	22.45 25	46.74 281	53.975 63	37.37 187	29.133 40	40.38 20
20	26.067 15	54.05 242	22.20 6	43.93 288	53.912 4	35.50 184	29.093 5	40.58 38
30	26.052 34	51.63 261	22.14 13	41.05 286	53.916 73	33.66 175	29.098 50	40.96 57
Mai 10	26.086 83	49.02 276	22.27 32	38.19 274	53.989 141	31.91 159	29.148 96	41.53 76
20	26.169 131	46.26 285	22.59 50	35.45 253	54.130 207	30.32 137	29.244 141	42.29 94
30	26.300 176	43.41 286	23.09 67	32.92 223	54.337 266	28.95 110	29.385 182	43.23 111
Juni 9	26.476 217	40.55 281	23.76 81	30.69 188	54.603 318	27.85 82	29.567 218	44.34 125
19	26.693 252	37.74 267	24.57 94	28.81 148	54.921 361	27.03 49	29.785 249	45.59 136
29	26.945 279	35.07 249	25.51 103	27.33 105	55.282 396	26.54 16	30.034 272	46.95 142
Juli 9	27.224 300	32.58 221	26.54 110	26.28 59	55.678 420	26.38 15	30.306 289	48.37 146
19	27.524 312	30.37 188	27.64 115	25.69 11	56.098 434	26.53 48	30.595 298	49.83 144
29	27.836 317	28.49 148	28.79 118	25.58 36	56.532 438	27.01 79	30.893 302	51.27 137
Aug. 8	28.153 315	27.01 105	29.97 117	25.94 82	56.970 436	27.80 105	31.195 298	52.64 127
18	28.468 305	25.96 58	31.14 115	26.76 125	57.406 425	28.85 130	31.493 290	53.91 112
28	28.773 289	25.38 8	32.29 110	28.01 168	57.831 406	30.15 152	31.783 277	55.03 95
Sept. 7	29.062 267	25.30 41	33.39 104	29.69 205	58.237 383	31.67 170	32.060 259	55.98 75
17	29.329 241	25.71 88	34.43 96	31.74 240	58.620 354	33.37 186	32.319 238	56.73 53
27	29.570 212	26.59 133	35.39 85	34.14 269	58.974 322	35.23 196	32.557 216	57.26 32
Okt. 7	29.782 178	27.92 171	36.24 74	36.83 292	59.296 285	37.19 204	32.773 191	57.58 11
17	29.960 144	29.63 203	36.98 60	39.75 311	59.581 244	39.23 209	32.964 164	57.69 8
27	30.104 107	31.66 226	37.58 46	42.86 323	59.825 201	41.32 209	33.128 136	57.61 25
Nov. 6	30.211 69	33.92 241	38.04 30	46.09 326	60.026 153	43.41 205	33.264 107	57.36 38
15	[8]30.280 31	36.33 245	[9]38.34 13	49.35 323	[11]60.179 103	45.46 198	[11]33.371 75	56.98 50
25	30.311 7	38.78 241	38.47 4	52.58 310	60.282 50	47.44 185	33.446 43	56.48 57
Dez. 5	30.304 44	41.19 226	38.43 21	55.68 288	60.332 5	49.29 167	33.489 8	55.91 61
15	30.260 80	43.45 206	38.22 38	58.56 258	60.327 60	50.96 144	33.497 25	55.30 64
25	30.180 114	45.51 177	37.84 55	61.14 219	60.267 114	52.40 117	33.472 59	54.66 64
35	30.066	47.28	37.29	63.33	60.153	53.57	33.413	54.02
Mittl. Ort	26.133	50.10	22.62	35.91	53.099	31.59	28.431	42.76
sec δ, tg δ	1.146	−0.560	4.624	+4.514	1.544	+1.177	1.012	+0.155
a, *a'*	+2.5	+13.6	+7.6	+13.4	+4.3	+12.9	+3.2	+12.8
b, *b'*	−0.03	−0.74	+0.20	−0.74	+0.05	−0.77	+0.01	−0.77

Tag	122) 2 H. Camelop. AR.		122) Dekl.		125) f Tauri AR.		125) Dekl.		127) ε Eridani[1]) AR.		127) Dekl.		131) δ Persei AR.		131) Dekl.	
1938	3h 24m		+59° 43′		3h 27m		+12° 43′		3h 30m		−9° 39′		3h 38m		+47° 35′	
	s		″		s		″		s		″		s		″	
Jan. 0	5.523	199	47.48	139	28.846	72	33.78	49	2.334	87	65.34	127	33.055	114	37.27	102
10	5.324	257	48.87	100	28.774	104	33.29	51	2.247	116	66.61	106	32.941	162	38.29	71
20	5.067	305	49.87	55	28.670	130	32.78	51	2.131	141	67.67	84	32.779	203	39.00	37
30	4.762	339	50.42	8	28.540	151	32.27	51	1.990	160	68.51	61	32.576	233	39.37	3
Febr. 9	4.423	356	50.50	38	28.389	163	31.76	50	1.830	170	69.12	35	32.343	252	39.40	33
19	4.067	355	50.12	84	28.226	166	31.26	48	1.660	173	69.47	10	32.091	257	39.07	68
März 1	3.712	335	49.28	126	28.060	160	30.78	43	1.487	166	69.57	16	31.834	247	38.39	100
11	3.377	298	48.02	162	27.900	143	30.35	37	1.321	151	69.41	42	31.587	224	37.39	126
21	3.079	244	46.40	190	27.757	117	29.98	27	1.170	126	68.99	67	31.363	187	36.13	148
31	2.835	177	44.50	212	27.640	84	29.71	16	1.044	95	68.32	93	31.176	139	34.65	164
Apr. 10	2.658	99	42.38	224	27.556	45	29.55	2	0.949	56	67.39	118	31.037	82	33.01	171
20	2.559	16	40.14	228	27.511	0	29.53	15	0.893	13	66.21	140	30.955	20	31.30	171
30	2.543	72	37.86	222	27.511	47	29.68	33	0.880	31	64.81	161	30.935	46	29.59	166
Mai 10	2.615	158	35.64	208	27.558	94	30.01	51	0.911	78	63.20	180	30.981	113	27.93	152
20	2.773	239	33.56	189	27.652	139	30.52	70	0.989	122	61.40	193	31.094	177	26.41	135
30	3.012	315	31.67	162	27.791	181	31.22	88	1.111	163	59.47	204	31.271	235	25.06	112
Juni 9	3.327	382	30.05	130	27.972	218	32.10	103	1.274	200	57.43	209	31.506	289	23.94	85
19	3.709	438	28.75	97	28.190	249	33.13	116	1.474	232	55.34	208	31.795	333	23.09	57
29	4.147	483	27.78	59	28.439	273	34.29	126	1.706	257	53.26	203	32.128	369	22.52	27
Juli 9	4.630	515	27.19	21	28.712	291	35.55	132	1.963	276	51.23	191	32.497	395	22.25	3
19	5.145	536	26.98	16	29.003	302	36.87	133	2.239	287	49.32	173	32.892	414	22.28	32
29	5.681	545	27.14	53	29.305	305	38.20	131	2.526	293	47.59	150	33.306	422	22.60	59
Aug. 8	6.226	543	27.67	89	29.610	303	39.51	124	2.819	291	46.09	121	33.728	423	23.19	86
18	6.769	533	28.56	122	29.913	296	40.75	113	3.110	284	44.88	90	34.151	416	24.05	108
28	7.302	512	29.78	151	30.209	283	41.88	99	3.394	271	43.98	56	34.567	402	25.13	129
Sept. 7	7.814	485	31.29	179	30.492	266	42.87	84	3.665	255	43.42	18	34.969	383	26.42	146
17	8.299	450	33.08	202	30.758	246	43.71	66	3.920	234	43.24	18	35.352	359	27.88	161
27	8.749	409	35.10	221	31.004	224	44.37	47	4.154	211	43.42	52	35.711	330	29.49	172
Okt. 7	9.158	362	37.31	237	31.228	200	44.84	29	4.365	185	43.94	85	36.041	298	31.21	181
17	9.520	310	39.68	247	31.428	174	45.13	12	4.550	158	44.79	112	36.339	262	33.02	186
27	9.830	252	42.15	253	31.602	145	45.25	3	4.708	129	45.91	135	36.601	222	34.88	188
Nov. 6	12 10.082	190	44.68	254	13 31.747	116	45.22	16	14 4.837	97	47.26	151	36.823	177	36.76	188
15*)	10.272	124	47.22	248	31.863	84	45.06	26	4.934	65	48.77	160	16 37.000	129	38.64	182
25	10.396	52	49.70	237	31.947	51	44.80	35	4.999	32	50.37	163	37.129	78	40.46	174
Dez. 5	10.448	20	52.07	219	31.998	15	44.45	40	5.031	2	52.00	160	37.207	24	42.20	159
15	10.428	93	54.26	194	32.013	19	44.05	45	5.029	37	53.60	150	37.231	32	43.79	142
25	10.335	163	56.20	163	31.994	55	43.60	47	4.992	70	55.10	137	37.199	85	45.21	118
35	10.172		57.83		31.939		43.13		4.922		56.47		37.114		46.39	
Mittl. Ort	1.840		34.53		26.795		31.40		0.501		61.68		30.056		27.61	
sec δ, tg δ	1.984		+1.713		1.025		+ 0.226		1.014		− 0.170		1.483		+ 1.095	
a, *a′*	+4.9		+12.6		+3.3		+12.4		+2.9		+12.2		+4.3		+11.6	
b, *b′*	+0.07		− 0.78		+0.01		− 0.79		−0.01		− 0.79		+0.04		− 0.82	

[1]) Die jährliche Parallaxe (0″310) ist bereits berücksichtigt.

*) Bei Stern 131) lies Nov. 16.

Tag	134) ν Persei AR.		134) ν Persei Dekl.		141) β Reticuli AR.		141) β Reticuli Dekl.		138) 5 H. Camelop. AR.		138) 5 H. Camelop. Dekl.		139) η Tauri AR.		139) η Tauri Dekl.	
1938	$3^h\ 40^m$		$+42°\ 22'$		$3^h\ 43^m$		$-64°\ 59'$		$3^h\ 43^m$		$+71°\ 8'$		$3^h\ 43^m$		$+23°\ 54'$	
	s		"		s		"		s		"		s		"	
Jan. 0	61.238	95	71.93	80	27.12	38	80.49	213	52.29	31	50.37	198	49.989	66	57.64	1
10	61.143	140	72.73	54	26.74	44	82.62	161	51.98	42	52.35	155	49.923	102	57.63	11
20	61.003	179	73.27	26	26.30	48	84.23	105	51.56	49	53.90	106	49.821	134	57.52	22
30	60.824	207	73.53	5	25.82	51	85.28	47	51.07	56	54.96	53	49.687	159	57.30	33
Febr. 9	60.617	226	73.48	35	25.31	53	85.75	11	50.51	58	55.49	2	49.528	175	56.97	44
19	60.391	231	73.13	64	24.78	52	85.64	67	49.93	60	55.47	56	49.353	181	56.53	54
März 1	60.160	224	72.49	91	24.26	51	84.97	121	49.33	57	54.91	108	49.172	177	55.99	61
11	59.936	204	71.58	114	23.75	47	83.76	172	48.76	52	53.83	155	48.995	161	55.38	66
21	59.732	170	70.44	131	23.28	43	82.04	217	48.24	44	52.28	195	48.834	137	54.72	68
31	59.562	127	69.13	142	22.85	37	79.87	257	47.80	35	50.33	226	48.697	102	54.04	65
Apr. 10	59.435	75	67.71	148	22.48	29	77.30	291	47.45	23	48.07	250	48.595	60	53.39	59
20	59.360	18	66.23	146	22.19	21	74.39	319	47.22	11	45.57	263	48.535	14	52.80	49
30	59.342	42	64.77	139	21.98	13	71.20	339	47.11	2	42.94	266	48.521	36	52.31	36
Mai 10	59.384	104	63.38	125	21.85	4	67.81	351	47.13	15	40.28	259	48.557	86	51.95	19
20	59.488	163	62.13	107	21.81	6	64.30	356	47.28	28	37.69	246	48.643	134	51.76	1
30	59.651	217	61.06	85	21.87	14	60.74	352	47.56	40	35.23	223	48.777	180	51.75	17
Juni 9	59.868	266	60.21	61	22.01	24	57.22	338	47.96	51	33.00	195	48.957	220	51.92	36
19	60.134	307	59.60	34	22.25	31	53.84	317	48.47	60	31.05	161	49.177	254	52.28	55
29	60.441	341	59.26	8	22.56	38	50.67	286	49.07	67	29.44	123	49.431	282	52.83	70
Juli 9	60.782	365	59.18	19	22.94	45	47.81	248	49.74	74	28.21	83	49.713	303	53.53	84
19	61.147	382	59.37	45	23.39	49	45.33	201	50.48	78	27.38	41	50.016	316	54.37	96
29	61.529	390	59.82	68	23.88	52	43.32	149	51.26	80	26.97	2	50.332	323	55.33	103
Aug. 8	61.919	390	60.50	89	24.40	55	41.83	92	52.06	82	26.99	44	50.655	323	56.36	107
18	62.309	384	61.39	108	24.95	55	40.91	31	52.88	81	27.43	84	50.978	317	57.43	107
28	62.693	372	62.47	123	25.50	54	40.60	33	53.69	80	28.27	124	51.295	307	58.50	106
Sept. 7	63.065	354	63.70	136	26.04	51	40.93	95	54.49	76	29.51	159	51.602	293	59.56	101
17	63.419	333	65.06	146	26.55	47	41.88	155	55.25	71	31.10	193	51.895	274	60.57	93
27	63.752	306	66.52	154	27.02	42	43.43	210	55.96	66	33.03	222	52.169	253	61.50	85
Okt. 7	64.058	278	68.06	158	27.44	35	45.53	258	56.62	60	35.25	248	52.422	230	62.35	75
17	64.336	244	69.64	161	27.79	27	48.11	296	57.22	51	37.73	268	52.652	203	63.10	66
27	64.580	208	71.25	160	28.06	18	51.07	325	57.73	42	40.41	283	52.855	175	63.76	57
Nov. 6	64.788	169	72.85	158	28.24	10	54.32	341	58.15	32	43.24	292	53.030	143	64.33	48
16	64.957	126	74.43	153	28.34	0	57.73	345	58.47	22	46.16	294	53.173	110	64.81	39
25	16 65.083	79	75.96	143	17 28.34	9	61.18	335	17 58.69	10	49.10	288	17 53.283	73	65.20	31
Dez. 5	65.162	30	77.39	131	28.25	17	64.53	314	58.79	2	51.98	275	53.356	35	65.51	23
15	65.192	20	78.70	115	28.08	26	67.67	283	58.77	14	54.73	252	53.391	5	65.74	14
25	65.172	70	79.85	95	27.82	34	70.50	241	58.63	26	57.25	221	53.386	45	65.88	7
35	65.102		80.80		27.48		72.91		58.37		59.46		53.341		65.95	
Mittl. Ort	58.447		63.46		24.90		67.14		46.71		37.75		47.685		53.38	
sec δ, tg δ	1.354		+0.913		2.366		−2.145		3.094		+2.928		1.094		+0.443	
a, *a′*	+4.1		+11.4		+0.7		+11.2		+6.3		+11.2		+3.6		+11.2	
b, *b′*	+0.03		− 0.82		−0.08		− 0.83		+0.11		− 0.83		+0.02		− 0.83	

Tag	140) τ⁶ Eridani AR.		140) τ⁶ Eridani Dekl.		143) *g* Eridani AR.		143) *g* Eridani Dekl.	
1938	3h 44m		−23° 25′		3h 47m		−36° 22′	
Jan. 0	12.588	98	61.07	174	9.871	133	83.16	203
10	12.490	131	62.81	145	9.738	169	85.19	163
20	12.359	158	64.26	111	9.569	198	86.82	121
30	12.201	179	65.37	74	9.371	222	88.03	75
Febr. 9	12.022	194	66.11	37	9.149	235	88.78	28
19	11.828	198	66.48	0	8.914	240	89.06	19
März 1	11.630	194	66.48	37	8.674	235	88.87	64
11	11.436	179	66.11	74	8.439	219	88.23	108
21	11.257	157	65.37	108	8.220	193	87.15	149
31	11.100	125	64.29	141	8.027	160	85.66	187
Apr. 10	10.975	88	62.88	172	7.867	119	83.79	220
20	10.887	44	61.16	198	7.748	71	81.59	249
30	10.843	3	59.18	221	7.677	21	79.10	273
Mai 10	10.846	50	56.97	240	7.656	32	76.37	291
20	10.896	97	54.57	253	7.688	85	73.46	302
30	10.993	141	52.04	260	7.773	135	70.44	306
Juni 9	11.134	183	49.44	260	7.908	181	67.38	302
19	11.317	220	46.84	255	8.089	224	64.36	290
29	11.537	249	44.29	242	8.313	259	61.46	271
Juli 9	11.786	273	41.87	221	8.572	288	58.75	244
19	12.059	290	39.66	195	8.860	309	56.31	209
29	12.349	299	37.71	161	9.169	323	54.22	168
Aug. 8	12.648	302	36.10	123	9.492	329	52.54	121
18	12.950	299	34.87	81	9.821	327	51.33	70
28	13.249	289	34.06	35	10.148	318	50.63	16
Sept. 7	13.538	275	33.71	12	10.466	302	50.47	39
17	13.813	255	33.83	58	10.768	281	50.86	92
27	14.068	232	34.41	103	11.049	254	51.78	143
Okt. 7	14.300	205	35.44	143	11.303	222	53.21	189
17	14.505	176	36.87	178	11.525	188	55.10	227
27	14.681	143	38.65	205	11.713	148	57.37	257
Nov. 6	14.824	110	40.70	224	11.861	108	59.94	277
16	14.934	73	42.94	234	11.960	65	62.71	286
25	[17] 15.007	36	45.28	235	[18] 12.034	20	65.57	285
Dez. 5	15.043	3	47.63	229	12.054	24	68.42	273
15	15.040	40	49.92	213	12.030	68	71.15	253
25	15.000	78	52.05	190	11.962	110	73.68	223
35	14.922		53.95		11.852		75.91	
Mittl. Ort	10.743		54.12		8.018		73.67	
sec δ, tg δ	1.090		−0.433		1.242		−0.737	
a, *a′*	+2.6		+11.2		+2.2		+11.0	
b, *b′*	−0.02		− 0.83		−0.03		− 0.84	

Tag	146) γ Hydri AR.		146) γ Hydri Dekl.		144) ζ Persei AR.		144) ζ Persei Dekl.	
1938	3h 48m		−74° 25′		3h 50m		+31° 42′	
Jan. 0	13.54	65	60.15	209	16.285	68	9.40	36
10	12.89	75	62.24	157	16.217	108	9.76	20
20	12.14	81	63.81	100	16.109	144	9.96	2
30	11.33	86	64.81	42	15.965	172	9.98	16
Febr. 9	10.47	88	65.23	16	15.793	190	9.82	36
19	9.59	87	65.07	73	15.603	197	9.46	54
März 1	8.72	85	64.34	127	15.406	194	8.92	70
11	7.87	79	63.07	176	15.212	179	8.22	83
21	7.08	72	61.31	222	15.033	151	7.39	91
31	6.36	63	59.09	260	14.882	116	6.48	97
Apr. 10	5.73	53	56.49	294	14.766	72	5.51	95
20	5.20	40	53.55	321	14.694	21	4.56	91
30	4.80	27	50.34	340	14.673	31	3.65	80
Mai 10	4.53	13	46.94	351	14.704	84	2.85	67
20	4.40	0	43.43	355	14.788	137	2.18	49
30	4.40	15	39.88	349	14.925	185	1.69	30
Juni 9	4.55	28	36.39	335	15.110	229	1.39	10
19	4.83	41	33.04	313	15.339	266	1.29	12
29	5.24	52	29.91	282	15.605	296	1.41	32
Juli 9	5.76	63	27.09	242	15.901	319	1.73	50
19	6.39	71	24.67	196	16.220	335	2.23	68
29	7.10	77	22.71	143	16.555	344	2.91	81
Aug. 8	7.87	81	21.28	86	16.899	344	3.72	93
18	8.68	83	20.42	24	17.243	340	4.65	102
28	9.51	81	20.18	39	17.583	330	5.67	107
Sept. 7	10.32	77	20.57	101	17.913	316	6.74	110
17	11.09	72	21.58	161	18.229	298	7.84	111
27	11.81	63	23.19	216	18.527	276	8.95	110
Okt. 7	12.44	52	25.35	263	18.803	253	10.05	106
17	12.96	39	27.98	301	19.056	224	11.11	102
27	13.35	26	30.99	328	19.280	195	12.13	98
Nov. 6	13.61	11	34.27	344	19.475	161	13.11	92
16	13.72	4	37.71	346	19.636	125	14.03	86
25	[18] 13.68	19	41.17	336	[19] 19.761	85	14.89	79
Dez. 5	13.49	33	44.53	314	19.846	42	15.68	69
15	13.16	47	47.67	280	19.888	1	16.37	58
25	12.69	59	50.47	239	19.887	45	16.95	46
35	12.10		52.86		19.842		17.41	
Mittl. Ort	10.66		46.35		13.779		3.82	
sec δ, tg δ	3.725		−3.589		1.175		+0.618	
a, *a′*	−1.0		+10.9		+3.8		+10.8	
b, *b′*	−0.13		− 0.84		+0.02		−0.84	

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Tag	145) 9 H. Camelop. AR.		Dekl.		147) ε Persei AR.		Dekl.		148) ξ Persei AR.		Dekl.		149) γ Eridani AR.		Dekl.	
1938	3h 51m		+60° 55′		3h 53m		+39° 49′		3h 54m		+35° 36′		3h 55m		−13° 40′	
	s		″		s		″		s		″		s		″	
Jan. 0	54.07	16	56.14	165	43.964	77	63.91	74	58.836	69	57.42	56	10.058	73	66.61	152
10	53.91	24	57.79	129	43.887	124	64.65	53	58.767	113	57.98	37	9.985	107	68.13	130
20	53.67	30	59.08	88	43.763	163	65.18	28	58.654	150	58.35	16	9.878	136	69.43	104
30	53.37	34	59.96	42	43.600	193	65.46	1	58.504	180	58.51	6	9.742	159	70.47	77
Febr. 9	53.03	37	60.38	4	43.407	214	65.47	27	58.324	200	58.45	29	9.583	175	71.24	47
19	52.66	38	60.34	51	43.193	223	65.20	53	58.124	209	58.16	51	9.408	182	71.71	18
März 1	52.28	37	59.83	96	42.970	219	64.67	77	57.915	206	57.65	72	9.226	180	71.89	11
11	51.91	34	58.87	135	42.751	203	63.90	99	57.709	190	56.93	89	9.046	168	71.78	41
21	51.57	29	57.52	170	42.548	173	62.91	115	57.519	163	56.04	102	8.878	148	71.37	70
31	51.28	23	55.82	196	42.375	133	61.76	126	57.356	126	55.02	110	8.730	119	70.67	98
Apr. 10	51.05	15	53.86	215	42.242	85	60.50	133	57.230	80	53.92	112	8.611	83	69.69	124
20	50.90	7	51.71	225	42.157	31	59.17	131	57.150	29	52.80	110	8.528	41	68.45	150
30	50.83	2	49.46	226	42.126	28	57.86	125	57.121	26	51.70	102	8.487	3	66.95	172
Mai 10	50.85	11	47.20	220	42.154	86	56.61	114	57.147	82	50.68	90	8.490	48	65.23	192
20	50.96	20	45.00	205	42.240	143	55.47	97	57.229	136	49.78	74	8.538	93	63.31	206
30	51.16	28	42.95	185	42.383	197	54.50	78	57.365	187	49.04	55	8.631	137	61.25	217
Juni 9	51.44	35	41.10	159	42.580	246	53.72	56	57.552	233	48.49	33	8.768	176	59.08	222
19	51.79	41	39.51	128	42.826	286	53.16	31	57.785	273	48.16	12	8.944	211	56.86	222
29	52.20	47	38.23	95	43.112	321	52.85	7	58.058	305	48.04	11	9.155	240	54.64	216
Juli 9	52.67	51	37.28	60	43.433	346	52.78	16	58.363	329	48.15	32	9.395	263	52.48	202
19	53.18	54	36.68	23	43.779	365	52.94	39	58.692	346	48.47	51	9.658	279	50.46	183
29	53.72	56	36.45	13	44.144	374	53.33	60	59.038	356	48.98	68	9.937	289	48.63	158
Aug. 8	54.28	57	36.58	48	44.518	377	53.93	78	59.394	359	49.66	84	10.226	292	47.05	128
18	54.85	56	37.06	82	44.895	374	54.71	95	59.753	355	50.50	96	10.518	290	45.77	93
28	55.41	55	37.88	114	45.269	364	55.66	109	60.108	345	51.46	105	10.808	283	44.84	55
Sept. 7	55.96	52	39.02	143	45.633	349	56.75	119	60.453	332	52.51	112	11.091	270	44.29	15
17	56.48	50	40.45	170	45.982	330	57.94	127	60.785	314	53.63	116	11.361	253	44.14	26
27	56.98	47	42.15	193	46.312	307	59.21	134	61.099	293	54.79	119	11.614	233	44.40	64
Okt. 7	57.45	42	44.08	213	46.619	281	60.55	137	61.392	267	55.98	119	11.847	211	45.04	100
17	57.87	37	46.21	229	46.900	251	61.92	140	61.659	239	57.17	119	12.058	185	46.04	132
27	58.24	32	48.50	240	47.151	217	63.32	140	61.898	208	58.36	117	12.243	156	47.36	157
Nov. 6	58.56	25	50.90	246	47.368	180	64.72	138	62.106	174	59.53	113	12.399	125	48.93	177
16	58.81	18	53.36	247	47.548	139	66.10	133	62.280	135	60.66	108	12.524	93	50.70	188
25	^{19}58.99	11	55.83	243	^{20}47.687	94	67.43	127	^{20}62.415	93	61.74	102	^{20}12.617	58	52.58	192
Dez. 5	59.10	3	58.26	230	47.781	47	68.70	117	62.508	48	62.76	92	12.675	21	54.50	189
15	59.13	5	60.56	211	47.828	2	69.87	105	62.556	2	63.68	81	12.696	16	56.39	179
25	59.08	12	62.67	186	47.826	52	70.92	87	62.558	45	64.49	67	12.680	53	58.18	164
35	58.96		64.53		47.774		71.79		62.513		65.16		12.627		59.82	
Mittl. Ort	50.04		45.49		41.199		56.92		56.201		51.37		8.130		61.63	
sec δ, tg δ	2.058		+1.799		1.302		+0.834		1.230		+0.716		1.029		−0.243	
a, *a′*	+5.1		+10.6		+4.0		+10.5		+3.9		+10.4		+2.8		+10.4	
b, *b′*	+0.06		− 0.85		+0.03		− 0.85		+0.02		− 0.85		−0.01		− 0.86	

Tag	150) λ Tauri AR.		150) λ Tauri Dekl.		151) ν Tauri AR.		151) ν Tauri Dekl.	
1938	$3^h\ 57^m$		$+12°\ 18'$		$3^h\ 59^m$		$+5°\ 49'$	
Jan. 0	16.702	53	60.33	50	53.457	52	5.90	79
10	16.649	89	59.83	50	53.405	88	5.11	73
20	16.560	120	59.33	49	53.317	119	4.38	65
30	16.440	145	58.84	47	53.198	143	3.73	56
Febr. 9	16.295	163	58.37	44	53.055	162	3.17	47
19	16.132	172	57.93	41	52.893	170	2.70	37
März 1	15.960	170	57.52	37	52.723	169	2.33	26
11	15.790	159	57.15	31	52.554	158	2.07	13
21	15.631	137	56.84	23	52.396	138	1.94	0
31	15.494	107	56.61	13	52.258	109	1.94	15
Apr. 10	15.387	70	56.48	0	52.149	73	2.09	32
20	15.317	28	56.48	14	52.076	32	2.41	49
30	15.289	19	56.62	30	52.044	13	2.90	67
Mai 10	15.308	65	56.92	47	52.057	58	3.57	84
20	15.373	111	57.39	63	52.115	104	4.41	100
30	15.484	154	58.02	80	52.219	146	5.41	115
Juni 9	15.638	193	58.82	93	52.365	184	6.56	128
19	15.831	227	59.75	106	52.549	219	7.84	135
29	16.058	255	60.81	114	52.768	246	9.19	141
Juli 9	16.313	276	61.95	119	53.014	267	10.60	142
19	16.589	291	63.14	120	53.281	283	12.02	138
29	16.880	299	64.34	118	53.564	292	13.40	128
Aug. 8	17.179	302	65.52	110	53.856	295	14.68	116
18	17.481	299	66.62	100	54.151	292	15.84	99
28	17.780	290	67.62	86	54.443	284	16.83	79
Sept. 7	18.070	278	68.48	70	54.727	273	17.62	56
17	18.348	263	69.18	52	55.000	258	18.18	33
27	18.611	245	69.70	34	55.258	240	18.51	8
Okt. 7	18.856	223	70.04	15	55.498	220	18.59	15
17	19.079	200	70.19	1	55.718	196	18.44	35
27	19.279	174	70.18	15	55.914	171	18.09	53
Nov. 6	19.453	146	70.03	28	56.085	142	17.56	68
16	[20] 19.599	114	69.75	37	[21] 56.227	111	16.88	78
25	19.713	80	69.38	44	56.338	78	16.10	84
Dez. 5	19.793	43	68.94	47	56.416	42	15.26	86
15	19.836	5	68.47	50	56.458	5	14.40	85
25	19.841	32	67.97	50	56.463	32	13.55	82
35	19.809		67.47		56.431		12.73	
Mittl. Ort	14.532		59.49		51.357		6.65	
sec δ, tg δ	1.024		+0.218		1.005		+0.102	
a, *a′*	+3.3		+10.2		+3.2		+10.0	
b, *b′*	+0.01		— 0.86		0.00		— 0.87	

Tag	152) c Persei AR.		152) c Persei Dekl.		154) o¹ Eridani AR.		154) o¹ Eridani Dekl.	
1938	$4^h\ 4^m$		$+47°\ 32'$		$4^h\ 8^m$		$-6°\ 59'$	
Jan. 0	12.303	85	63.19	115	52.287	56	56.72	133
10	12.218	140	64.34	89	52.231	91	58.05	117
20	12.078	186	65.23	59	52.140	122	59.22	97
30	11.892	223	65.82	26	52.018	149	60.19	75
Febr. 9	11.669	249	66.08	8	51.869	166	60.94	53
19	11.420	261	66.00	42	51.703	177	61.47	29
März 1	11.159	258	65.58	75	51.526	177	61.76	6
11	10.901	241	64.83	104	51.349	167	61.82	19
21	10.660	210	63.79	129	51.182	149	61.63	42
31	10.450	166	62.50	148	51.033	122	61.21	67
Apr. 10	10.284	113	61.02	160	50.911	87	60.54	91
20	10.171	52	59.42	165	50.824	48	59.63	113
30	10.119	11	57.77	164	50.776	4	58.50	134
Mai 10	10.130	78	56.13	156	50.772	41	57.16	153
20	10.208	143	54.57	143	50.813	86	55.63	169
30	10.351	203	53.14	125	50.899	128	53.94	182
Juni 9	10.554	259	51.89	103	51.027	168	52.12	190
19	10.813	307	50.86	78	51.195	202	50.22	193
29	11.120	347	50.08	51	51.397	232	48.29	190
Juli 9	11.467	379	49.57	24	51.629	255	46.39	183
19	11.846	402	49.33	3	51.884	273	44.56	170
29	12.248	415	49.36	30	52.157	283	42.86	150
Aug. 8	12.663	422	49.66	54	52.440	288	41.36	126
18	13.085	420	50.20	78	52.728	288	40.10	98
28	13.505	412	50.98	98	53.016	282	39.12	65
Sept. 7	13.917	399	51.96	116	53.298	272	38.47	30
17	14.316	379	53.12	133	53.570	258	38.17	4
27	14.695	356	54.45	146	53.828	241	38.21	39
Okt. 7	15.051	327	55.91	157	54.069	220	38.60	72
17	15.378	294	57.48	165	54.289	197	39.32	100
27	15.672	257	59.13	172	54.486	171	40.32	125
Nov. 6	15.929	215	60.85	175	54.657	142	41.57	143
16	[22] 16.144	167	62.60	174	[23] 54.799	111	43.00	154
25	16.311	116	64.34	170	54.910	77	44.54	161
Dez. 5	16.427	60	66.04	161	54.987	40	46.15	160
15	16.487	3	67.65	148	55.027	3	47.75	153
25	16.490	55	69.13	130	55.030	35	49.28	142
35	16.435		70.43		54.995		50.70	
Mittl. Ort	9.162		55.67		50.267		52.87	
sec δ, tg δ	1.482		+1.093		1.008		−0.123	
a, *a′*	+4.4		+9.7		+2.9		+9.3	
b, *b′*	+0.04		−0.87		0.00		−0.88	

Tag	155) α Horologii AR.	155) α Horologii Dekl.	156) α Reticuli AR.	156) α Reticuli Dekl.	160) υ⁴ Eridani AR.	160) υ⁴ Eridani Dekl.	162) δ Tauri AR.	162) δ Tauri Dekl.
1938	$4^h\ 11^m$	−42° 26′	$4^h\ 13^m$	−62° 37′	$4^h\ 15^m$	−33° 56′	$4^h\ 19^m$	+17° 23′
	s	″	s	″	s	″	s	″
Jan. 0	58.672 139	57.88 235	39.62 31	55.51 250	34.738 103	64.75 222	23.712 36	55.68 27
10	58.533 181	60.23 196	39.31 36	58.01 202	34.635 143	66.97 186	23.676 76	55.41 29
20	58.352 218	62.19 150	38.95 42	60.03 150	34.492 178	68.83 147	23.600 112	55.12 30
30	58.134 247	63.69 101	38.53 45	61.53 95	34.314 206	70.30 104	23.488 142	54.82 33
Febr. 9	57.887 266	64.70 52	38.08 48	62.48 38	34.108 225	71.34 58	23.346 164	54.49 35
19	57.621 276	65.22 2	37.60 50	62.86 18	33.883 236	71.92 13	23.182 177	54.14 38
März 1	57.345 274	65.24 48	37.10 48	62.68 74	33.647 236	72.05 32	23.005 179	53.76 38
11	57.071 262	64.76 96	36.62 47	61.94 127	33.411 225	71.73 76	22.826 171	53.38 38
21	56.809 238	63.80 140	36.15 43	60.67 175	33.186 206	70.97 117	22.655 152	53.00 35
31	56.571 206	62.40 182	35.72 37	58.92 219	32.980 176	69.80 156	22.503 124	52.65 31
Apr. 10	56.365 165	60.58 219	35.35 32	56.73 258	32.804 139	68.24 192	22.379 88	52.34 24
20	56.200 117	58.39 252	35.03 25	54.15 292	32.665 95	66.32 224	22.291 46	52.10 14
30	56.083 65	55.87 279	34.78 17	51.23 317	32.570 47	64.08 250	22.245 1	51.96 1
Mai 10	56.018 9	53.08 299	34.61 9	48.06 336	32.523 3	61.58 272	22.244 47	51.95 13
20	56.009 47	50.09 313	34.52 1	44.70 348	32.526 54	58.86 286	22.291 95	52.08 27
30	56.056 103	46.96 320	34.51 9	41.22 350	32.580 104	56.00 295	22.386 139	52.35 42
Juni 9	56.159 155	43.76 317	34.60 16	37.72 344	32.684 151	53.05 295	22.525 180	52.77 56
19	56.314 202	40.59 308	34.76 24	34.28 329	32.835 194	50.10 289	22.705 216	53.33 70
29	56.516 246	37.51 288	35.00 31	30.99 304	33.029 232	47.21 275	22.921 247	54.03 80
Juli 9	56.762 281	34.63 262	35.31 38	27.95 272	33.261 263	44.46 251	23.168 271	54.83 88
19	57.043 310	32.01 227	35.69 43	25.23 231	33.524 287	41.95 222	23.439 289	55.71 93
29	57.353 330	29.74 185	36.12 46	22.92 183	33.811 306	39.73 184	23.728 300	56.64 94
Aug. 8	57.683 344	27.89 137	36.58 49	21.09 128	34.117 316	37.89 140	24.028 307	57.58 92
18	58.027 347	26.52 84	37.07 52	19.81 68	34.433 319	36.49 92	24.335 306	58.50 87
28	58.374 345	25.68 26	37.59 51	19.13 6	34.752 316	35.57 40	24.641 302	59.37 78
Sept. 7	58.719 333	25.42 32	38.10 49	19.07 57	35.068 307	35.17 15	24.943 293	60.15 67
17	59.052 315	25.74 89	38.59 47	19.64 120	35.375 291	35.32 69	25.236 281	60.82 54
27	59.367 290	26.63 144	39.06 42	20.84 179	35.666 269	36.01 120	25.517 265	61.36 41
Okt. 7	59.657 260	28.07 195	39.48 37	22.63 233	35.935 244	37.21 169	25.782 247	61.77 28
17	59.917 223	30.02 239	39.85 31	24.96 277	36.179 214	38.90 211	26.029 225	62.05 15
27	60.140 183	32.41 273	40.16 24	27.73 313	36.393 179	41.01 244	26.254 201	62.20 3
Nov. 6	60.323 138	35.14 297	40.40 16	30.86 337	36.572 141	43.45 269	26.455 172	62.23 5
16	60.461 90	38.11 312	40.56 7	34.23 348	36.713 101	46.14 283	26.627 141	62.18 12
25*)	^{24}60.551 41	41.23 313	^{25}40.63 1	37.71 347	^{25}36.814 57	48.97 287	26.768 107	62.06 18
Dez. 5	60.592 11	44.36 304	40.62 10	41.18 334	36.871 12	51.84 281	^{26}26.875 68	61.88 21
15	60.581 62	47.40 285	40.52 18	44.52 310	36.883 33	54.65 265	26.943 28	61.67 24
25	60.519 111	50.25 257	40.34 26	47.62 275	36.850 78	57.30 240	26.971 14	61.43 25
35	60.408	52.82	40.08	50.37	36.772	59.70	26.957	61.18
Mittl. Ort	56.667	47.67	37.22	43.17	32.757	55.83	21.386	54.91
sec δ, tg δ	1.355	−0.915	2.175	−1.932	1.205	−0.673	1.048	+0.313
a, *a′*	+2.0	+9.1	+0.8	+9.0	+2.3	+8.8	+3.5	+8.5
b, *b′*	−0.03	−0.89	−0.06	−0.89	−0.02	−0.90	+0.01	−0.91

*) Bei Stern 162) lies Nov. 26.

Tag		164) ε Tauri AR.		164) ε Tauri Dekl.		168) α Tauri AR.		168) α Tauri Dekl.		171) α Doradus AR.		171) α Doradus Dekl.		169) ν Eridani AR.		169) ν Eridani Dekl.	
1938		4h 24m		+19° 2′		4h 32m		+16° 23′		4h 32m		−55° 9′		4h 33m		−3° 28′	
		s		"		s		"		s		"		s		"	
Jan.	0	61.992	32	40.97	19	23.981	26	10.18	32	41.694	196	91.83	269	15.314	35	44.25	127
	10	61.960	72	40.78	21	23.955	67	9.86	32	41.498	253	94.52	226	15.279	73	45.52	114
	20	61.888	110	40.57	24	23.888	105	9.54	32	41.245	302	96.78	178	15.206	108	46.66	96
	30	61.778	142	40.33	27	23.783	136	9.22	33	40.943	341	98.56	126	15.098	139	47.62	77
Febr.	9	61.636	164	40.06	32	23.647	161	8.89	34	40.602	368	99.82	71	14.959	160	48.39	58
	19	61.472	178	39.74	35	23.486	176	8.55	34	40.234	383	100.53	17	14.799	175	48.97	38
März	1	61.294	183	39.39	38	23.310	181	8.21	34	39.851	385	100.70	38	14.624	180	49.35	17
	11	61.111	174	39.01	40	23.129	175	7.87	33	39.466	373	100.32	91	14.444	174	49.52	4
	21	60.937	156	38.61	39	22.954	158	7.54	30	39.093	348	99.41	140	14.270	158	49.48	25
	31	60.781	129	38.22	36	22.796	131	7.24	25	38.745	312	98.01	186	14.112	134	49.23	46
Apr.	10	60.652	93	37.86	30	22.665	98	6.99	18	38.433	265	96.15	227	13.978	103	48.77	68
	20	60.559	51	37.56	22	22.567	58	6.81	9	38.168	209	93.88	264	13.875	65	48.09	89
	30	60.508	5	37.34	11	22.509	12	6.72	3	37.959	148	91.24	293	13.810	23	47.20	109
Mai	10	60.503	42	37.23	2	22.497	34	6.75	16	37.811	80	88.31	317	13.787	21	46.11	127
	20	60.545	90	37.25	16	22.531	81	6.91	30	37.731	11	85.14	333	13.808	66	44.84	143
	30	60.635	135	37.41	31	22.612	126	7.21	43	37.720	58	81.81	340	13.874	109	43.41	156
Juni	9	60.770	177	37.72	44	22.738	167	7.64	56	37.778	127	78.41	339	13.983	148	41.85	166
	19	60.947	215	38.16	58	22.905	204	8.20	69	37.905	191	75.02	330	14.131	185	40.19	172
	29	61.162	245	38.74	70	23.109	236	8.89	78	38.096	249	71.72	311	14.316	216	38.47	171
Juli	9	61.407	270	39.44	78	23.345	261	9.67	85	38.345	301	68.61	283	14.532	241	36.76	167
	19	61.677	289	40.22	84	23.606	281	10.52	89	38.646	346	65.78	247	14.773	261	35.09	157
	29	61.966	301	41.06	86	23.887	294	11.41	89	38.992	380	63.31	203	15.034	275	33.52	141
Aug.	8	62.267	308	41.92	86	24.181	301	12.30	86	39.372	406	61.28	152	15.309	283	32.11	121
	18	62.575	310	42.78	82	24.482	304	13.16	80	39.778	420	59.76	96	15.592	286	30.90	96
	28	62.885	305	43.60	75	24.786	301	13.96	70	40.198	424	58.80	35	15.878	285	29.94	67
Sept.	7	63.190	298	44.35	66	25.087	295	14.66	58	40.622	418	58.45	29	16.163	278	29.27	36
	17	63.488	286	45.01	54	25.382	284	15.24	45	41.040	400	58.74	91	16.441	267	28.91	3
	27	63.774	271	45.55	43	25.666	271	15.69	30	41.440	373	59.65	151	16.708	255	28.88	29
Okt.	7	64.045	253	45.98	31	25.937	254	15.99	16	41.813	337	61.16	206	16.963	237	29.17	60
	17	64.298	232	46.29	20	26.191	234	16.15	3	42.150	291	63.22	255	17.200	217	29.77	87
	27	64.530	208	46.49	10	26.425	211	16.18	8	42.441	238	65.77	295	17.417	194	30.64	111
Nov.	6	64.738	180	46.59	2	26.636	184	16.10	17	42.679	178	68.72	324	17.611	168	31.75	130
	16	64.918	149	46.61	4	26.820	153	15.93	24	42.857	114	71.96	341	17.779	137	33.05	141
	26	65.067	113	46.57	9	26.973	118	15.69	28	42.971	47	75.37	345	17.916	103	34.46	148
Dez.	5	[28] 65.180	75	46.48	12	[29] 27.091	81	15.41	30	[29] 43.018	22	78.82	339	[30] 18.019	66	35.94	149
	15	65.255	34	46.36	15	27.172	40	15.11	32	42.996	92	82.21	319	18.085	28	37.43	144
	25	65.289	8	46.21	16	27.212	3	14.79	32	42.904	157	85.40	291	18.113	12	38.87	134
	35	65.281		46.05		27.209		14.47		42.747		88.31		18.101		40.21	
Mittl. Ort		59.620		40.20		21.629		10.32		39.392		80.66		13.187		40.43	
sec δ, tg δ		1.058		+0.345		1.042		+0.294		1.751		−1.437		1.002		−0.061	
a, *a′*		+3.5		+8.1		+3.4		+7.5		+1.3		+7.5		+3.0		+7.4	
b, *b′*		+0.01		−0.92		+0.01		−0.93		−0.04		−0.93		0.00		−0.93	

Tag	172) 53 Eridani AR.		172) 53 Eridani Dekl.		174) τ Tauri AR.		174) τ Tauri Dekl.		173) Grb 848 AR.		173) Grb 848 Dekl.		175) 4 Camelop. AR.		175) 4 Camelop. Dekl.	
1938	$4^h\ 35^m$		$-14°\ 25'$		$4^h\ 38^m$		$+22°\ 50'$		$4^h\ 40^m$		$+75°\ 49'$		$4^h\ 42^m$		$+56°\ 38'$	
	s		"		s		"		s		"		s		"	
Jan. 0	22.441	46	32.48	175	33.766	21	23.15	1	35.10	26	62.54	253	53.715	65	62.92	175
10	22.395	85	34.23	153	33.745	65	23.16	2	34.84	42	65.07	221	53.650	139	64.67	151
20	22.310	120	35.76	127	33.680	105	23.14	7	34.42	56	67.28	179	53.511	205	66.18	121
30	22.190	150	37.03	99	33.575	140	23.07	14	33.86	67	69.07	132	53.306	260	67.39	85
Febr. 9	22.040	172	38.02	69	33.435	166	22.93	21	33.19	76	70.39	78	53.046	302	68.24	46
19	21.868	187	38.71	39	33.269	183	22.72	28	32.43	80	71.17	22	52.744	328	68.70	5
März 1	21.681	191	39.10	8	33.086	189	22.44	35	31.63	81	71.39	34	52.416	337	68.75	37
11	21.490	186	39.18	23	32.897	183	22.09	41	30.82	79	71.05	88	52.079	327	68.38	76
21	21.304	171	38.95	53	32.714	167	21.68	44	30.03	72	70.17	139	51.752	299	67.62	113
31	21.133	148	38.42	82	32.547	140	21.24	46	29.31	62	68.78	183	51.453	256	66.49	144
Apr. 10	20.985	115	37.60	110	32.407	106	20.78	44	28.69	51	66.95	220	51.197	200	65.05	169
20	20.870	77	36.50	137	32.301	64	20.34	40	28.18	36	64.75	248	50.997	132	63.36	187
30	20.793	35	35.13	160	32.237	18	19.94	31	27.82	19	62.27	266	50.865	58	61.49	197
Mai 10	20.758	9	33.53	181	32.219	31	19.63	22	27.63	3	59.61	276	50.807	19	59.52	201
20	20.767	54	31.72	198	32.250	79	19.41	10	27.60	13	56.85	277	50.826	97	57.51	197
30	20.821	98	29.74	211	32.329	125	19.31	4	27.73	30	54.08	268	50.923	173	55.54	187
Juni 9	20.919	140	27.63	219	32.454	169	19.35	17	28.03	45	51.40	252	51.096	244	53.67	171
19	21.059	177	25.44	220	32.623	208	19.52	31	28.48	60	48.88	229	51.340	308	51.96	151
29	21.236	209	23.24	216	32.831	241	19.83	43	29.08	72	46.59	201	51.648	364	50.45	128
Juli 9	21.445	237	21.08	205	33.072	268	20.26	53	29.80	83	44.58	168	52.012	411	49.17	101
19	21.682	258	19.03	187	33.340	289	20.79	62	30.63	92	42.90	131	52.423	448	48.16	72
29	21.940	274	17.16	165	33.629	303	21.41	67	31.55	99	41.59	91	52.871	476	47.44	43
Aug. 8	22.214	284	15.51	135	33.932	312	22.08	69	32.54	104	40.68	51	53.347	494	47.01	14
18	22.498	288	14.16	101	34.244	316	22.77	69	33.58	106	40.17	9	53.841	505	46.87	16
28	22.786	287	13.15	63	34.560	314	23.46	66	34.64	108	40.08	33	54.346	506	47.03	45
Sept. 7	23.073	281	12.52	22	34.874	309	24.12	60	35.72	106	40.41	74	54.852	500	47.48	71
17	23.354	270	12.30	20	35.183	298	24.72	54	36.78	104	41.15	114	55.352	487	48.19	96
27	23.624	257	12.50	60	35.481	286	25.26	45	37.82	99	42.29	151	55.839	467	49.15	121
Okt. 7	23.881	239	13.10	99	35.767	269	25.71	38	38.81	93	43.80	187	56.306	440	50.36	142
17	24.120	217	14.09	135	36.036	250	26.09	30	39.74	85	45.67	218	56.746	406	51.78	162
27	24.337	193	15.44	164	36.286	226	26.39	23	40.59	74	47.85	246	57.152	366	53.40	180
Nov. 6	24.530	164	17.08	186	36.512	198	26.62	18	41.33	62	50.31	269	57.518	316	55.20	193
16	24.694	132	18.94	201	36.710	167	26.80	13	41.95	49	53.00	286	57.834	261	57.13	202
26	^{30}24.826	97	20.95	208	36.877	131	26.93	11	42.44	34	55.86	294	58.095	198	59.15	208
Dez. 5	24.923	58	23.03	208	^{1}37.008	91	27.04	9	^{1}42.78	17	58.80	295	^{2}58.293	127	61.23	208
15	24.981	18	25.11	200	37.099	48	27.13	7	42.95	0	61.75	288	58.420	53	63.31	201
25	24.999	22	27.11	186	37.147	4	27.20	4	42.95	16	64.63	269	58.473	23	65.32	188
35	24.977		28.97		37.151		27.24		42.79		67.32		58.450		67.20	
Mittl. Ort	20.371		26.71		31.281		22.51		27.26		55.34		49.787		57.70	
sec δ, tg δ	1.033		−0.257		1.085		+0.421		4.086		+3.961		1.819		+1.519	
a, *a′*	+2.8		+7.2		+3.6		+7.0		+8.1		+6.8		+5.0		+6.6	
b, *b′*	−0.01		−0.93		+0.01		−0.94		+0.09		−0.94		+0.03		−0.94	

Tag	178) 9 Camelop. AR.		178) 9 Camelop. Dekl.		180) π^5 Orionis AR.		180) π^5 Orionis Dekl.		181) ι Aurigae AR.		181) ι Aurigae Dekl.		183) ε Aurigae AR.		183) ε Aurigae Dekl.	
1938	$4^h\ 47^m$		+66° 14′		$4^h\ 51^m$		+2° 20′		$4^h\ 52^m$		+33° 4′		$4^h\ 57^m$		+43° 43′	
	s		″		s		″		s		″		s		″	
Jan. 0	57.43	11	30.35	220	3.441	17	22.46	105	59.955	12	12.27	58	34.109	16	62.69	117
10	57.32	21	32.55	193	3.424	57	21.41	94	59.943	61	12.85	49	34.093	74	63.86	102
20	57.11	30	34.48	158	3.367	95	20.47	82	59.882	108	13.34	38	34.019	129	64.88	83
30	56.81	37	36.06	117	3.272	127	19.65	68	59.774	148	13.72	23	33.890	175	65.71	59
Febr. 9	56.44	43	37.23	71	3.145	154	18.97	53	59.626	180	13.95	7	33.715	212	66.30	34
19	56.01	46	37.94	22	2.991	171	18.44	39	59.446	201	14.02	11	33.503	237	66.64	5
März 1	55.55	48	38.16	28	2.820	179	18.05	24	59.245	210	13.91	29	33.266	249	66.69	24
11	55.07	46	37.88	76	2.641	176	17.81	9	59.035	207	13.62	46	33.017	245	66.45	52
21	54.61	43	37.12	120	2.465	164	17.72	8	58.828	191	13.16	61	32.772	228	65.93	77
31	54.18	37	35.92	159	2.301	141	17.80	24	58.637	165	12.55	72	32.544	198	65.16	99
Apr. 10	53.81	30	34.33	191	2.160	112	18.04	40	58.472	128	11.83	81	32.346	156	64.17	116
20	53.51	21	32.42	216	2.048	75	18.44	58	58.344	84	11.02	84	32.190	107	63.01	129
30	53.30	11	30.26	233	1.973	34	19.02	75	58.260	35	10.18	84	32.083	51	61.72	135
Mai 10	53.19	1	27.93	240	1.939	10	19.77	91	58.225	17	9.34	79	32.032	9	60.37	136
20	53.18	10	25.53	240	1.949	54	20.68	106	58.242	70	8.55	72	32.041	69	59.01	131
30	53.28	20	23.13	232	2.003	97	21.74	120	58.312	121	7.83	61	32.110	128	57.70	123
Juni 9	53.48	29	20.81	218	2.100	137	22.94	130	58.433	169	7.22	48	32.238	184	56.47	111
19	53.77	38	18.63	198	2.237	174	24.24	137	58.602	212	6.74	34	32.422	233	55.36	94
29	54.15	46	16.65	172	2.411	206	25.61	141	58.814	250	6.40	19	32.655	277	54.42	77
Juli 9	54.61	52	14.93	142	2.617	233	27.02	139	59.064	281	6.21	4	32.932	315	53.65	58
19	55.13	58	13.51	111	2.850	254	28.41	133	59.345	307	6.17	10	33.247	344	53.07	38
29	55.71	62	12.40	77	3.104	270	29.74	123	59.652	324	6.27	23	33.591	367	52.69	18
Aug. 8	56.33	65	11.63	41	3.374	281	30.97	107	59.976	336	6.50	33	33.958	382	52.51	1
18	56.98	67	11.22	6	3.655	285	32.04	88	60.312	343	6.83	42	34.340	392	52.52	18
28	57.65	68	11.16	30	3.940	286	32.92	65	60.655	344	7.25	48	34.732	394	52.70	36
Sept. 7	58.33	67	11.46	64	4.226	283	33.57	39	60.999	341	7.73	54	35.126	392	53.06	51
17	59.00	65	12.10	98	4.509	276	33.96	12	61.340	333	8.27	58	35.518	384	53.57	65
27	59.65	63	13.08	129	4.785	265	34.08	16	61.673	321	8.85	60	35.902	371	54.22	79
Okt. 7	60.28	59	14.37	160	5.050	250	33.92	42	61.994	305	9.45	62	36.273	354	55.01	90
17	60.87	55	15.97	186	5.300	233	33.50	66	62.299	286	10.07	64	36.627	332	55.91	101
27	61.42	49	17.83	209	5.533	212	32.84	86	62.585	262	10.71	65	36.959	304	56.92	111
Nov. 6	61.91	42	19.92	230	5.745	187	31.98	102	62.847	233	11.36	67	37.263	270	58.03	120
16	62.33	34	22.22	244	5.932	158	30.96	114	63.080	199	12.03	69	37.533	231	59.23	127
26	62.67	25	24.66	252	6.090	125	29.82	119	63.279	159	12.72	69	37.764	184	60.50	132
Dez. 5*)	[3] 62.92	16	27.18	255	[4] 6.215	89	28.63	121	[5] 63.438	115	13.41	69	37.948 [6]	132	61.82	133
15	63.08	6	29.73	248	6.304	48	27.42	117	63.553	67	14.10	68	38.080	76	63.15	130
25	63.14	5	32.21	235	6.352	7	26.25	110	63.620	17	14.78	63	38.156	18	64.45	124
35	63.09		34.56		6.359		25.15		63.637		15.41		38.174		65.69	
Mittl. Ort	52.30		24.68		1.214		25.87		57.185		11.03		30.941		60.40	
sec δ, tg δ	2.482		+2.272		1.001		+0.041		1.193		+0.651		1.384		+0.957	
a, *a′*	+6.0		+6.2		+3.1		+5.9		+3.9		+5.8		+4.3		+5.4	
b, *b′*	+0.05		−0.95		0.00		−0.96		+0.01		−0.96		+0.02		−0.96	

*) Bei Stern 183) lies Dez. 6.

Tag	182) 10 Camelop. AR.		182) Dekl.		184) ι Tauri AR.		184) Dekl.		185) η Aurigae AR.		185) Dekl.		186) ε Leporis AR.		186) Dekl.	
1938	4h 57m		+60° 21′		4h 59m		+21° 30′		5h 2m		+41° 9′		5h 2m		−22° 26′	
	s		″		s		″		s		″		s		″	
Jan. 0	58.00	5	19.09	199	25.796	3	10.18	5	12.880	8	10.78	103	52.294	35	78.24	220
10	57.95	14	21.08	176	25.793	48	10.13	5	12.872	64	11.81	92	52.259	79	80.44	195
20	57.81	21	22.84	147	25.745	90	10.08	8	12.808	117	12.73	75	52.180	119	82.39	164
30	57.60	28	24.31	111	25.655	128	10.00	11	12.691	163	13.48	54	52.061	154	84.03	131
Febr. 9	57.32	34	25.42	70	25.527	158	9.89	16	12.528	200	14.02	31	51.907	181	85.34	95
19	56.98	36	26.12	26	25.369	179	9.73	20	12.328	225	14.33	6	51.726	200	86.29	57
März 1	56.62	38	26.38	18	25.190	188	9.53	26	12.103	237	14.39	20	51.526	209	86.86	20
11	56.24	38	26.20	61	25.002	187	9.27	30	11.866	235	14.19	46	51.317	208	87.06	18
21	55.86	35	25.59	102	24.815	174	8.97	34	11.631	220	13.73	70	51.109	196	86.88	54
31	55.51	30	24.57	137	24.641	151	8.63	35	11.411	192	13.03	89	50.913	176	86.34	89
Apr. 10	55.21	25	23.20	168	24.490	120	8.28	35	11.219	153	12.14	105	50.737	147	85.45	122
20	54.96	18	21.52	190	24.370	80	7.93	30	11.066	105	11.09	116	50.590	111	84.23	154
30	54.78	10	19.62	207	24.290	37	7.63	24	10.961	52	9.93	121	50.479	71	82.69	181
Mai 10	54.68	1	17.55	214	24.253	11	7.39	16	10.909	5	8.72	122	50.408	26	80.88	206
20	54.67	8	15.41	215	24.264	58	7.23	6	10.914	62	7.50	119	50.382	20	78.82	224
30	54.75	15	13.26	208	24.322	104	7.17	6	10.976	119	6.31	109	50.402	65	76.58	239
Juni 9	54.90	24	11.18	196	24.426	147	7.23	17	11.095	173	5.22	98	50.467	108	74.19	248
19	55.14	31	9.22	179	24.573	188	7.40	29	11.268	221	4.24	84	50.575	149	71.71	249
29	55.45	37	7.43	156	24.761	221	7.69	39	11.489	263	3.40	67	50.724	185	69.22	245
Juli 9	55.82	43	5.87	130	24.982	251	8.08	47	11.752	300	2.73	50	50.909	217	66.77	232
19	56.25	47	4.57	103	25.233	274	8.55	54	12.052	329	2.23	32	51.126	244	64.45	213
29	56.72	51	3.54	73	25.507	291	9.09	57	12.381	351	1.91	14	51.370	264	62.32	186
Aug. 8	57.23	54	2.81	41	25.798	303	9.66	57	12.732	367	1.77	3	51.634	279	60.46	153
18	57.77	55	2.40	11	26.101	309	10.23	57	13.099	376	1.80	18	51.913	290	58.93	115
28	58.32	56	2.29	20	26.410	311	10.80	51	13.475	379	1.98	32	52.203	293	57.78	70
Sept. 7	58.88	55	2.49	50	26.721	309	11.31	45	13.854	378	2.30	45	52.496	292	57.08	24
17	59.43	55	2.99	79	27.030	302	11.76	37	14.232	372	2.75	58	52.788	287	56.84	24
27	59.98	53	3.78	107	27.332	293	12.13	28	14.604	360	3.33	68	53.075	277	57.08	71
Okt. 7	60.51	50	4.85	133	27.625	279	12.41	19	14.964	344	4.01	78	53.352	261	57.79	118
17	61.01	46	6.18	157	27.904	263	12.60	11	15.308	323	4.79	87	53.613	241	58.97	159
27	61.47	43	7.75	179	28.167	241	12.71	5	15.631	298	5.66	95	53.854	218	60.56	195
Nov. 6	61.90	37	9.54	197	28.408	217	12.76	0	15.929	266	6.61	103	54.072	189	62.51	222
16	62.27	31	11.51	211	28.625	186	12.76	4	16.195	229	7.64	110	54.261	157	64.73	243
26	62.58	24	13.62	221	28.811	152	12.72	5	16.424	185	8.74	114	54.418	119	67.16	253
Dez. 6	6 62.82	17	15.83	224	6 28.963	112	12.67	5	7 16.609	135	9.88	116	7 54.537	78	69.69	255
15	62.99	8	18.07	220	29.075	68	12.62	5	16.744	81	11.04	115	54.615	35	72.24	247
25	63.07	1	20.27	211	29.143	24	12.57	4	16.825	25	12.19	110	54.650	10	74.71	232
35	63.06		22.38		29.167		12.53		16.850		13.29		54.640		77.03	
Mittl. Ort	53.65		15.00		23.282		11.06		9.810		9.21		50.158		71.10	
sec δ, tg δ	2.022		+1.757		1.075		+0.394		1.328		+0.874		1.082		−0.413	
a, a'	+5.3		+5.4		+3.6		+5.2		+4.2		+5.0		+2.5		+4.9	
b, b'	+0.03		−0.96		+0.01		−0.97		+0.01		−0.97		−0.01		−0.97	

Tag	188) β Eridani AR.		188) β Eridani Dekl.		192) μ Aurigae AR.		192) μ Aurigae Dekl.		194) β Orionis AR.		194) β Orionis Dekl.		193) α Aurigae AR.		193) α Aurigae Dekl.	
1938	$5^h\ 4^m$		$-5°\ 9'$		$5^h\ 9^m$		$+38°\ 24'$		$5^h\ 11^m$		$-8°\ 16'$		$5^h\ 12^m$		$+45°\ 56'$	
	s		"		s		"		s		"		s		"	
Jan. 0	50.259	11	59.66	146	13.940	3	47.27	89	35.628	8	24.32	164	9.644	0	14.52	130
10	50.248	53	61.12	131	13.943	53	48.16	81	35.620	51	25.96	147	9.644	63	15.82	118
20	50.195	93	62.43	112	13.890	105	48.97	67	35.569	91	27.43	125	9.581	121	17.00	99
30	50.102	127	63.55	91	13.785	151	49.64	49	35.478	126	28.68	102	9.460	173	17.99	77
Febr. 9	49.975	154	64.46	70	13.634	187	50.13	30	35.352	155	29.70	77	9.287	214	18.76	50
19	49.821	173	65.16	47	13.447	213	50.43	8	35.197	175	30.47	52	9.073	244	19.26	20
März 1	49.648	183	65.63	25	13.234	227	50.51	16	35.022	186	30.99	27	8.829	259	19.46	11
11	49.465	183	65.88	2	13.007	227	50.35	39	34.836	187	31.26	1	8.570	259	19.35	41
21	49.282	173	65.90	21	12.780	213	49.96	59	34.649	177	31.27	24	8.311	245	18.94	69
31	49.109	152	65.69	43	12.567	188	49.37	77	34.472	159	31.03	50	8.066	217	18.25	94
Apr. 10	48.957	125	65.26	65	12.379	151	48.60	92	34.313	131	30.53	73	7.849	176	17.31	115
20	48.832	90	64.61	87	12.228	107	47.68	101	34.182	97	29.80	97	7.673	127	16.16	131
30	48.742	51	63.74	107	12.121	56	46.67	107	34.085	58	28.83	120	7.546	71	14.85	142
Mai 10	48.691	8	62.67	126	12.065	2	45.60	107	34.027	17	27.63	139	7.475	11	13.43	146
20	48.683	35	61.41	142	12.063	53	44.53	104	34.010	27	26.24	156	7.464	50	11.97	144
30	48.718	79	59.99	156	12.116	108	43.49	96	34.037	69	24.68	170	7.514	112	10.53	140
Juni 9	48.797	119	58.43	166	12.224	160	42.53	85	34.106	111	22.98	180	7.626	170	9.13	129
19	48.916	156	56.77	171	12.384	206	41.68	72	34.217	149	21.18	186	7.796	223	7.84	116
29	49.072	190	55.06	173	12.590	248	40.96	57	34.366	182	19.32	185	8.019	269	6.68	99
Juli 9	49.262	218	53.33	168	12.838	284	40.39	42	34.548	212	17.47	180	8.288	311	5.69	82
19	49.480	242	51.65	157	13.122	313	39.97	27	34.760	236	15.67	168	8.599	343	4.87	62
29	49.722	259	50.08	142	13.435	334	39.70	11	34.996	255	13.99	151	8.942	370	4.25	42
Aug. 8	49.981	272	48.66	121	13.769	351	39.59	3	35.251	270	12.48	127	9.312	388	3.83	23
18	50.253	280	47.45	95	14.120	360	39.62	16	35.521	278	11.21	100	9.700	401	3.60	4
28	50.533	283	46.50	66	14.480	366	39.78	27	35.799	282	10.21	68	10.101	408	3.56	15
Sept. 7	50.816	282	45.84	33	14.846	364	40.05	38	36.081	283	9.53	32	10.509	407	3.71	32
17	51.098	276	45.51	1	15.210	360	40.43	47	36.364	278	9.21	4	10.916	403	4.03	49
27	51.374	268	45.52	35	15.570	350	40.90	55	36.642	270	9.25	42	11.319	393	4.52	65
Okt. 7	51.642	255	45.87	69	15.920	336	41.45	63	36.912	259	9.67	77	11.712	377	5.17	79
17	51.897	239	46.56	98	16.256	317	42.08	70	37.171	243	10.44	110	12.089	357	5.96	93
27	52.136	218	47.54	124	16.573	294	42.78	77	37.414	223	11.54	138	12.446	330	6.89	107
Nov. 6	52.354	194	48.78	145	16.867	264	43.55	84	37.637	198	12.92	160	12.776	297	7.96	118
16	52.548	166	50.23	158	17.131	229	44.39	90	37.835	170	14.52	177	13.073	256	9.14	128
26	52.714	132	51.81	167	17.360	188	45.29	95	38.005	137	16.29	185	13.329	210	10.42	136
Dez. 6	52.846	96	53.48	168	17.548	141	46.24	97	38.142	100	18.14	187	13.539	156	11.78	140
15	[8] 52.942	55	55.16	164	[9] 17.689	88	47.21	98	[9] 38.242	59	20.01	182	[9] 13.695	97	13.18	141
25	52.997	13	56.80	154	17.777	34	48.19	95	38.301	16	21.83	172	13.792	35	14.59	137
35	53.010		58.34		17.811		49.14		38.317		23.55		13.827		15.96	
Mittl. Ort	48.058		54.73		10.959		46.62		33.430		18.85		6.335		13.28	
sec δ, tg δ	1.004		−0.090		1.276		+0.793		1.010		−0.145		1.438		+1.033	
a, a′	+3.0		+4.8		+4.1		+4.4		+2.9		+4.2		+4.4		+4.2	
b, b′	0.00		−0.97		+0.01		−0.98		0.00		−0.98		+0.01		−0.98	

Scheinbare Sternörter 1938

Tag	191) 19 H. Camelop. AR.	Δ	191) Dekl.	Δ	196) ϑ Doradus AR.	Δ	196) Dekl.	Δ
1938	$5^h\ 12^m$		$+79°\ 9'$		$5^h\ 13^m$		$-67°\ 14'$	
	s		"		s		"	
Jan. 0	28.18	23	56.69	280	51.13	27	88.47	311
10	27.95	44	59.49	255	50.86	37	91.58	274
20	27.51	64	62.04	219	50.49	44	94.32	229
30	26.87	81	64.23	175	50.05	51	96.61	179
Febr. 9	26.06	95	65.98	125	49.54	56	98.40	126
19	25.11	103	67.23	70	48.98	60	99.66	71
März 1	24.08	108	67.93	11	48.38	61	100.37	14
11	23.00	107	68.04	46	47.77	61	100.51	40
21	21.93	101	67.58	101	47.16	58	100.11	93
31	20.92	92	66.57	151	46.58	55	99.18	144
Apr. 10	20.00	78	65.06	195	46.03	50	97.74	190
20	19.22	62	63.11	231	45.53	42	95.84	232
30	18.60	42	60.80	259	45.11	35	93.52	267
Mai 10	18.18	22	58.21	277	44.76	26	90.85	298
20	17.96	1	55.44	286	44.50	17	87.87	320
30	17.95	21	52.58	286	44.33	7	84.67	335
Juni 9	18.16	41	49.72	278	44.26	3	81.32	341
19	18.57	61	46.94	262	44.29	13	77.91	339
29	19.18	78	44.32	240	44.42	22	74.52	327
Juli 9	19.96	95	41.92	212	44.64	30	71.25	306
19	20.91	108	39.80	179	44.94	39	68.19	275
29	21.99	119	38.01	143	45.33	46	65.44	235
Aug. 8	23.18	128	36.58	104	45.79	51	63.09	189
18	24.46	134	35.54	62	46.30	56	61.20	134
28	25.80	138	34.92	20	46.86	58	59.86	74
Sept. 7	27.18	140	34.72	22	47.44	59	59.12	11
17	28.58	138	34.94	65	48.03	59	59.01	55
27	29.96	134	35.59	107	48.62	57	59.56	119
Okt. 7	31.30	128	36.66	147	49.19	52	60.75	179
17	32.58	120	38.13	184	49.71	47	62.54	235
27	33.78	107	39.97	219	50.18	40	64.89	283
Nov. 6	34.85	93	42.16	249	50.58	31	67.72	320
16	35.78	77	44.65	274	50.89	21	70.92	347
26	36.55	57	47.39	292	51.10	11	74.39	360
Dez. 6	37.12	36	50.31	301	51.21	1	77.99	362
	10				10			
15	37.48	14	53.32	302	51.22	10	81.61	351
25	37.62	9	56.34	292	51.12	21	85.12	329
35	37.53		59.26		50.91		88.41	
Mittl. Ort	17.92		52.83		47.99		78.19	
sec δ, tg δ	5.320		+5.225		2.587		−2.385	
a, *a′*	+9.9		+4.1		0.0		+4.0	
b, *b′*	+0.07		−0.98		−0.03		−0.98	

Tag	201) γ Orionis AR.	Δ	201) Dekl.	Δ	202) β Tauri AR.	Δ	202) Dekl.	Δ
1938	$5^h\ 21^m$		$+6°\ 17'$		$5^h\ 22^m$		$+28°\ 33'$	
	s		"		s		"	
Jan. 0	50.620	13	37.68	92	24.982	19	23.26	35
10	50.633	32	36.76	82	25.001	31	23.61	33
20	50.601	74	35.94	71	24.970	79	23.94	28
30	50.527	112	35.23	59	24.891	123	24.22	21
Febr. 9	50.415	143	34.64	48	24.768	158	24.43	11
19	50.272	165	34.16	36	24.610	184	24.54	0
März 1	50.107	178	33.80	25	24.426	199	24.54	12
11	49.929	181	33.55	13	24.227	202	24.42	25
21	49.748	173	33.42	2	24.025	193	24.17	36
31	49.575	155	33.40	10	23.832	172	23.81	45
Apr. 10	49.420	129	33.50	23	23.660	142	23.36	52
20	49.291	95	33.73	37	23.518	104	22.84	56
30	49.196	57	34.10	50	23.414	59	22.28	57
Mai 10	49.139	14	34.60	63	23.355	12	21.71	54
20	49.125	29	35.23	77	23.343	37	21.17	49
30	49.154	71	36.00	89	23.380	86	20.68	42
Juni 9	49.225	113	36.89	99	23.466	133	20.26	33
19	49.338	151	37.88	106	23.599	175	19.93	22
29	49.489	184	38.94	110	23.774	214	19.71	12
Juli 9	49.673	214	40.04	111	23.988	245	19.59	2
19	49.887	238	41.15	108	24.233	273	19.57	7
29	50.125	257	42.23	101	24.506	294	19.64	15
Aug. 8	50.382	271	43.24	88	24.800	310	19.79	20
18	50.653	281	44.12	73	25.110	321	19.99	24
28	50.934	286	44.85	54	25.431	326	20.23	25
Sept. 7	51.220	288	45.39	32	25.757	328	20.48	27
17	51.508	285	45.71	9	26.085	325	20.75	26
27	51.793	278	45.80	15	26.410	319	21.01	24
Okt. 7	52.071	269	45.65	38	26.729	308	21.25	23
17	52.340	256	45.27	59	27.037	294	21.48	23
27	52.596	239	44.68	78	27.331	275	21.71	22
Nov. 6	52.835	216	43.90	91	27.606	251	21.93	24
16	53.051	190	42.99	100	27.857	221	22.17	25
26	53.241	158	41.99	106	28.078	185	22.42	29
Dez. 6	53.399	121	40.93	107	28.263	143	22.71	32
	12				12			
15	53.520	81	39.86	103	28.406	98	23.03	34
25	53.601	37	38.83	96	28.504	48	23.37	36
35	53.638		37.87		28.552		23.73	
Mittl. Ort	48.285		41.71		22.270		24.77	
sec δ, tg δ	1.006		+0.110		1.138		+0.544	
a, *a′*	+3.2		+3.3		+3.8		+3.3	
b, *b′*	0.00		−0.99		+0.01		−0.99	

Tag	203) 17 Camelop. AR.		Dekl.		206) δ Orionis AR.		Dekl.		207) α Leporis AR.		Dekl.		205) Grb 966 AR.		Dekl.	
1938	$5^h\ 24^m$		$+63°\ 0'$		$5^h\ 28^m$		$-0°\ 20'$		$5^h\ 29^m$		$-17°\ 51'$		$5^h\ 31^m$		$+75°\ 0'$	
	s		"		s		"		s		"		s		"	
Jan. 0	23.24	1	66.95	220	52.568	14	41.88	130	61.908	4	62.27	216	33.13	6	25.19	271
10	23.23	11	69.15	202	52.582	30	43.18	116	61.904	49	64.43	194	33.07	24	27.90	252
20	23.12	20	71.17	176	52.552	73	44.34	100	61.855	92	66.37	167	32.83	39	30.42	222
30	22.92	28	72.93	143	52.479	111	45.34	83	61.763	130	68.04	138	32.44	52	32.64	185
Febr. 9	22.64	35	74.36	105	52.368	142	46.17	65	61.633	162	69.42	106	31.92	64	34.49	139
19	22.29	39	75.41	61	52.226	165	46.82	47	61.471	185	70.48	72	31.28	72	35.88	88
März 1	21.90	42	76.02	16	52.061	179	47.29	29	61.286	198	71.20	38	30.56	76	36.76	34
11	21.48	42	76.18	31	51.882	183	47.58	11	61.088	202	71.58	4	29.80	77	37.10	21
21	21.06	40	75.87	75	51.699	176	47.69	7	60.886	196	71.62	30	29.03	74	36.89	75
31	20.66	36	75.12	115	51.523	159	47.62	26	60.690	179	71.32	62	28.29	69	36.14	124
Apr. 10	20.30	31	73.97	151	51.364	135	47.36	44	60.511	154	70.70	93	27.60	60	34.90	168
20	19.99	24	72.46	181	51.229	102	46.92	61	60.357	122	69.77	122	27.00	48	33.22	207
30	19.75	16	70.65	202	51.127	65	46.31	79	60.235	84	68.55	150	26.52	34	31.15	236
Mai 10	19.59	7	68.63	218	51.062	24	45.52	95	60.151	43	67.05	174	26.18	20	28.79	257
20	19.52	2	66.45	225	51.038	18	44.57	111	60.108	1	65.31	194	25.98	5	26.22	269
30	19.54	11	64.20	225	51.056	60	43.46	123	60.107	44	63.37	210	25.93	10	23.53	274
Juni 9	19.65	20	61.95	218	51.116	101	42.23	134	60.151	86	61.27	220	26.03	26	20.79	271
19	19.85	28	59.77	207	51.217	139	40.89	140	60.237	126	59.07	226	26.29	41	18.08	259
29	20.13	36	57.70	188	51.356	173	39.49	143	60.363	162	56.81	224	26.70	53	15.49	241
Juli 9	20.49	42	55.82	167	51.529	203	38.06	141	60.525	194	54.57	217	27.23	66	13.08	218
19	20.91	47	54.15	141	51.732	228	36.65	134	60.719	222	52.40	201	27.89	76	10.90	190
29	21.38	52	52.74	113	51.960	248	35.31	122	60.941	245	50.39	179	28.65	85	9.00	157
Aug. 8	21.90	56	51.61	84	52.208	264	34.09	106	61.186	263	48.60	152	29.50	92	7.43	123
18	22.46	58	50.77	53	52.472	274	33.03	85	61.449	276	47.08	117	30.42	97	6.20	85
28	23.04	60	50.24	21	52.746	280	32.18	60	61.725	284	45.91	78	31.39	101	5.35	47
Sept. 7	23.64	61	50.03	10	53.026	283	31.58	31	62.009	288	45.13	36	32.40	102	4.88	7
17	24.25	60	50.13	42	53.309	282	31.27	2	62.297	286	44.77	10	33.42	103	4.81	34
27	24.85	59	50.55	73	53.591	277	31.25	28	62.583	281	44.87	55	34.45	101	5.15	73
Okt. 7	25.44	57	51.28	103	53.868	268	31.53	57	62.864	271	45.42	99	35.46	98	5.88	112
17	26.01	54	52.31	132	54.136	255	32.10	84	63.135	256	46.41	139	36.44	92	7.00	150
27	26.55	50	53.63	159	54.391	238	32.94	107	63.391	238	47.80	174	37.36	85	8.50	185
Nov. 6	27.05	45	55.22	182	54.629	217	34.01	126	63.629	213	49.54	203	38.21	75	10.35	216
16	27.50	38	57.04	203	54.846	191	35.27	139	63.842	183	51.57	224	38.96	64	12.51	243
26	27.88	31	59.07	219	55.037	159	36.66	146	64.025	149	53.81	237	39.60	51	14.94	264
Dez. 6	28.19	23	61.26	229	55.196	122	38.12	148	64.174	111	56.18	241	40.11	36	17.58	279
	13				14				14				14			
15	28.42	13	63.55	232	55.318	83	39.60	144	64.285	68	58.59	237	40.47	20	20.37	284
25	28.55	4	65.87	228	55.401	39	41.04	136	64.353	22	60.96	225	40.67	3	23.21	280
35	28.59		68.15		55.440		42.40		64.375		63.21		40.70		26.01	
Mittl. Ort	18.48		65.40		50.282		36.88		59.700		55.55		25.37		23.69	
sec δ, tg δ	2.204		+1.964		1.000		−0.006		1.051		−0.322		3.865		+3.734	
a, a′	+5.7		+3.1		+3.1		+2.7		+2.6		+2.6		+8.0		+2.5	
b, b′	+0.02		−0.99		0.00		−0.99		0.00		−0.99		+0.03		−0.99	

Scheinbare Sternörter 1938

Tag	209) ι Orionis AR.		209) ι Orionis Dekl.		210) ε Orionis AR.		210) ε Orionis Dekl.		212) β Doradus AR.		212) β Doradus Dekl.		211) ζ Tauri AR.		211) ζ Tauri Dekl.	
1938	$5^h\ 32^m$		$-5°\ 56'$		$5^h\ 33^m$		$-1°\ 14'$		$5^h\ 33^m$		$-62°\ 31'$		$5^h\ 33^m$		$+21°\ 6'$	
Jan. 0	26.242	13	63.09	161	6.280	17	29.57	136	8.00	17	58.03	328	58.875	30	19.94	9
10	26.255	33	64.70	144	6.297	27	30.93	122	7.83	25	61.31	295	58.905	19	19.85	6
20	26.222	74	66.14	124	6.270	70	32.15	105	7.58	33	64.26	253	58.886	65	19.79	3
30	26.148	113	67.38	103	6.200	109	33.20	87	7.25	39	66.79	207	58.821	108	19.76	4
Febr. 9	26.035	145	68.41	80	6.091	141	34.07	68	6.86	45	68.86	155	58.713	143	19.72	5
19	25.890	168	69.21	56	5.950	165	34.75	50	6.41	48	70.41	101	58.570	170	19.67	8
März 1	25.722	182	69.77	33	5.785	179	35.25	30	5.93	50	71.42	47	58.400	186	19.59	12
11	25.540	187	70.10	10	5.606	183	35.55	11	5.43	50	71.89	9	58.214	191	19.47	17
21	25.353	180	70.20	14	5.423	177	35.66	8	4.93	49	71.80	62	58.023	184	19.30	20
31	25.173	164	70.06	37	5.246	162	35.58	27	4.44	46	71.18	114	57.839	167	19.10	23
Apr. 10	25.009	141	69.69	59	5.084	137	35.31	45	3.98	43	70.04	162	57.672	140	18.87	23
20	24.868	109	69.10	81	4.947	106	34.86	64	3.55	37	68.42	206	57.532	106	18.64	22
30	24.759	72	68.29	102	4.841	69	34.22	82	3.18	30	66.36	246	57.426	66	18.42	20
Mai 10	24.687	31	67.27	121	4.772	28	33.40	99	2.88	24	63.90	279	57.360	21	18.22	14
20	24.656	10	66.06	138	4.744	14	32.41	114	2.64	16	61.11	305	57.339	25	18.08	8
30	24.666	53	64.68	152	4.758	56	31.27	127	2.48	7	58.06	324	57.364	70	18.00	0
Juni 9	24.719	94	63.16	162	4.814	97	30.00	137	2.41	0	54.82	335	57.434	114	18.00	9
19	24.813	131	61.54	168	4.911	134	28.63	144	2.41	9	51.47	337	57.548	154	18.09	17
29	24.944	166	59.86	170	5.045	169	27.19	146	2.50	17	48.10	330	57.702	190	18.26	25
Juli 9	25.110	197	58.16	166	5.214	199	25.73	144	2.67	24	44.80	314	57.892	223	18.51	30
19	25.307	223	56.50	157	5.413	224	24.29	137	2.91	32	41.66	287	58.115	249	18.81	35
29	25.530	243	54.93	142	5.637	245	22.92	124	3.23	37	38.79	251	58.364	270	19.16	37
Aug. 8	25.773	260	53.51	121	5.882	261	21.68	108	3.60	42	36.28	208	58.634	286	19.53	36
18	26.033	271	52.30	96	6.143	273	20.60	86	4.02	47	34.20	156	58.920	298	19.89	34
28	26.304	279	51.34	66	6.416	279	19.74	60	4.49	49	32.64	97	59.218	306	20.23	28
Sept. 7	26.583	282	50.68	33	6.695	283	19.14	32	4.98	50	31.67	36	59.524	308	20.51	21
17	26.865	281	50.35	2	6.978	282	18.82	1	5.48	51	31.31	29	59.832	308	20.72	12
27	27.146	277	50.37	37	7.260	277	18.81	31	5.99	50	31.60	95	60.140	303	20.84	4
Okt. 7	27.423	268	50.74	72	7.537	269	19.12	60	6.49	47	32.55	157	60.443	296	20.88	5
17	27.691	255	51.46	103	7.806	257	19.72	88	6.96	43	34.12	215	60.739	283	20.83	12
27	27.946	239	52.49	130	8.063	241	20.60	112	7.39	38	36.27	267	61.022	267	20.71	18
Nov. 6	28.185	217	53.79	153	8.304	220	21.72	131	7.77	31	38.94	308	61.289	246	20.53	21
16	28.402	190	55.32	168	8.524	194	23.03	144	8.08	24	42.02	339	61.535	218	20.32	23
26	28.592	158	57.00	178	8.718	162	24.47	153	8.32	15	45.41	358	61.753	186	20.09	21
Dez. 6	28.750	122	58.78	181	8.880	126	26.00	154	8.47	7	48.99	365	61.939	147	19.88	19
15	28.872	81	60.59	176	9.006	86	27.54	150	8.54	3	52.64	360	62.086	104	19.69	15
25	28.953	38	62.35	167	9.092	42	29.04	142	8.51	12	56.24	342	62.190	58	19.54	10
35	28.991		64.02		9.134		30.46		8.39		59.66		62.248		19.44	
Mittl. Ort	23.989		57.44		3.994		24.35		5.06		48.75		56.307		22.99	
sec δ, tg δ	1.005		−0.104		1.000		−0.022		2.168		−1.924		1.072		+0.386	
a, *a′*	+2.9		+2.4		+3.0		+2.4		+0.5		+2.3		+3.6		+2.3	
b, *b′*	0.00		−0.99		0.00		−0.99		−0.02		−0.99		0.00		−0.99	

Tag	215) α Columbae AR.	Diff.	215) α Columbae Dekl.	Diff.	216) ο Aurigae AR.	Diff.	216) ο Aurigae Dekl.	Diff.	219) ζ Leporis AR.	Diff.	219) ζ Leporis Dekl.	Diff.	220) κ Orionis AR.	Diff.	220) κ Orionis Dekl.	Diff.
1938	$5^h\ 37^m$		−34° 6′		$5^h\ 41^m$		+49° 47′		$5^h\ 44^m$		−14° 50′		$5^h\ 44^m$		−9° 41′	
	s		"		s		"		s		"		s		"	
Jan. 0	26.430	26	30.61	281	9.316	35	63.57	156	10.971	14	44.10	208	51.190	20	31.26	184
10	26.404	77	33.42	254	9.351	35	65.13	148	10.985	33	46.18	189	51.210	26	33.10	166
20	26.327	124	35.96	220	9.316	102	66.61	133	10.952	77	48.07	164	51.184	69	34.76	144
30	26.203	167	38.16	182	9.214	163	67.94	112	10.875	117	49.71	137	51.115	109	36.20	120
Febr. 9	26.036	202	39.98	140	9.051	215	69.06	86	10.758	150	51.08	107	51.006	143	37.40	94
19	25.834	227	41.38	96	8.836	253	69.92	55	10.608	175	52.15	76	50.863	168	38.34	68
März 1	25.607	243	42.34	50	8.583	277	70.47	22	10.433	191	52.91	44	50.695	185	39.02	41
11	25.364	248	42.84	5	8.306	285	70.69	11	10.242	198	53.35	13	50.510	190	39.43	13
21	25.116	242	42.89	39	8.021	278	70.58	45	10.044	193	53.48	18	50.320	186	39.56	13
31	24.874	225	42.50	83	7.743	255	70.13	76	9.851	179	53.30	48	50.134	172	39.43	40
Apr. 10	24.649	199	41.67	124	7.488	218	69.37	103	9.672	156	52.82	78	49.962	150	39.03	65
20	24.450	166	40.43	161	7.270	171	68.34	126	9.516	126	52.04	106	49.812	120	38.38	90
30	24.284	126	38.82	196	7.099	115	67.08	143	9.390	90	50.98	132	49.692	85	37.48	112
Mai 10	24.158	81	36.86	226	6.984	54	65.65	156	9.300	51	49.66	155	49.607	45	36.36	133
20	24.077	35	34.60	250	6.930	10	64.09	161	9.249	9	48.11	175	49.562	3	35.03	151
30	24.042	14	32.10	270	6.940	74	62.48	162	9.240	34	46.36	191	49.559	38	33.52	167
Juni 9	24.056	62	29.40	281	7.014	137	60.86	158	9.274	75	44.45	202	49.597	79	31.85	177
19	24.118	107	26.59	285	7.151	196	59.28	149	9.349	114	42.43	209	49.676	118	30.08	184
29	24.225	151	23.74	282	7.347	248	57.79	136	9.463	151	40.34	209	49.794	153	28.24	185
Juli 9	24.376	189	20.92	270	7.595	296	56.43	122	9.614	183	38.25	203	49.947	184	26.39	181
19	24.565	224	18.22	251	7.891	336	55.21	105	9.797	212	36.22	190	50.131	212	24.58	170
29	24.789	254	15.71	222	8.227	370	54.16	85	10.009	235	34.32	171	50.343	235	22.88	154
Aug. 8	25.043	277	13.49	186	8.597	395	53.31	66	10.244	254	32.61	146	50.578	253	21.34	132
18	25.320	296	11.63	143	8.992	415	52.65	46	10.498	268	31.15	115	50.831	267	20.02	103
28	25.616	308	10.20	95	9.407	428	52.19	25	10.766	278	30.00	78	51.098	276	18.99	71
Sept. 7	25.924	315	9.25	42	9.835	436	51.94	5	11.044	284	29.22	39	51.374	281	18.28	35
17	26.239	316	8.83	15	10.271	437	51.89	15	11.328	285	28.83	4	51.655	283	17.93	2
27	26.555	310	8.98	71	10.708	432	52.04	35	11.613	282	28.87	48	51.938	280	17.95	42
Okt. 7	26.865	299	9.69	125	11.140	422	52.39	54	11.895	275	29.35	90	52.218	273	18.37	79
17	27.164	281	10.94	176	11.562	406	52.93	74	12.170	263	30.25	128	52.491	262	19.16	114
27	27.445	258	12.70	221	11.968	381	53.67	94	12.433	247	31.53	163	52.753	246	20.30	145
Nov. 6	27.703	229	14.91	257	12.349	350	54.61	111	12.680	224	33.16	191	52.999	226	21.75	171
16	27.932	193	17.48	286	12.699	310	55.72	127	12.904	197	35.07	212	53.225	199	23.46	188
26	28.125	152	20.34	303	13.009	262	56.99	142	13.101	165	37.19	225	53.424	168	25.34	200
Dez. 6	28.277	106	23.37	309	13.271	206	58.41	153	13.266	126	39.44	230	53.592	131	27.34	204
16	28.383	56	26.46	306	13.477	143	59.94	159	13.392	85	41.74	227	53.723	90	29.38	201
25	^{16}28.439	4	29.52	292	^{17}13.620	75	61.53	160	^{18}13.477	40	44.01	216	^{18}53.813	45	31.39	191
35	28.443		32.44		13.695		63.13		13.517		46.17		53.858		33.30	
Mittl. Ort	24.162		22.71		5.749		64.69		8.732		37.54		48.935		25.07	
sec δ, tg δ	1.208		−0.677		1.549		+1.183		1.035		−0.265		1.014		−0.171	
a, *a′*	+2.2		+2.0		+4.6		+1.7		+2.7		+1.4		+2.8		+1.3	
b, *b′*	0.00		−1.00		+0.01		−1.00		0.00		−1.00		0.00		−1.00	

Tag	224) α Orionis AR.	Δ	224) α Orionis Dekl.	Δ	225) δ Aurigae AR.	Δ	225) δ Aurigae Dekl.	Δ	227) β Aurigae AR.	Δ	227) β Aurigae Dekl.	Δ	228) ϑ Aurigae AR.	Δ	228) ϑ Aurigae Dekl.	Δ
1938	$5^h\ 51^m$		$+7°\ 23'$		$5^h\ 54^m$		$+54°\ 16'$		$5^h\ 54^m$		$+44°\ 56'$		$5^h\ 55^m$		$+37°\ 12'$	
	s		″		s		″		s		″		s		″	
Jan. 0	51.273	41	44.61	93	29.197	53	54.47	181	62.180	56	32.71	130	32.616	57	33.12	86
10	51.314	6	43.68	82	29.250	25	56.28	173	62.236	10	34.01	127	32.673	3	33.98	85
20	51.308	52	42.86	69	29.225	101	58.01	159	62.226	73	35.28	117	32.670	59	34.83	79
30	51.256	93	42.17	58	29.124	171	59.60	138	62.153	131	36.45	102	32.611	112	35.62	70
Febr. 9	51.163	129	41.59	45	28.953	230	60.98	110	62.022	182	37.47	81	32.499	157	36.32	56
19	51.034	156	41.14	34	28.723	276	62.08	77	61.840	221	38.28	57	32.342	192	36.88	39
März 1	50.878	175	40.80	23	28.447	306	62.85	41	61.619	246	38.85	30	32.150	215	37.27	20
11	50.703	182	40.57	12	28.141	318	63.26	4	61.373	257	39.15	1	31.935	226	37.47	2
21	50.521	178	40.45	3	27.823	314	63.30	35	61.116	253	39.16	28	31.709	222	37.45	23
31	50.343	166	40.42	9	27.509	292	62.95	70	60.863	236	38.88	55	31.487	206	37.22	42
Apr. 10	50.177	143	40.51	19	27.217	257	62.25	103	60.627	206	38.33	79	31.281	179	36.80	60
20	50.034	113	40.70	30	26.960	208	61.22	131	60.421	164	37.54	101	31.102	143	36.20	74
30	49.921	78	41.00	42	26.752	149	59.91	153	60.257	115	36.53	117	30.959	98	35.46	86
Mai 10	49.843	38	41.42	53	26.603	84	58.38	170	60.142	61	35.36	128	30.861	50	34.60	92
20	49.805	3	41.95	65	26.519	15	56.68	180	60.081	3	34.08	135	30.811	2	33.68	95
30	49.808	45	42.60	75	26.504	55	54.88	185	60.078	55	32.73	136	30.813	54	32.73	95
Juni 9	49.853	87	43.35	84	26.559	124	53.03	184	60.133	112	31.37	135	30.867	105	31.78	91
19	49.940	124	44.19	91	26.683	189	51.19	178	60.245	165	30.02	128	30.972	153	30.87	85
29	50.064	160	45.10	94	26.872	248	49.41	167	60.410	215	28.74	119	31.125	196	30.02	77
Juli 9	50.224	191	46.04	95	27.120	302	47.74	154	60.625	259	27.55	108	31.321	235	29.25	68
19	50.415	217	46.99	93	27.422	349	46.20	136	60.884	297	26.47	94	31.556	269	28.57	57
29	50.632	240	47.92	85	27.771	389	44.84	116	61.181	329	25.53	80	31.825	296	28.00	48
Aug. 8	50.872	257	48.77	75	28.160	421	43.68	96	61.510	354	24.73	64	32.121	319	27.52	38
18	51.129	271	49.52	60	28.581	446	42.72	74	61.864	374	24.09	49	32.440	336	27.14	28
28	51.400	280	50.12	42	29.027	464	41.98	50	62.238	389	23.60	34	32.776	349	26.86	19
Sept. 7	51.680	286	50.54	22	29.491	475	41.48	27	62.627	397	23.26	18	33.125	356	26.67	11
17	51.966	288	50.76	1	29.966	480	41.21	3	63.024	401	23.08	3	33.481	360	26.56	4
27	52.254	287	50.75	23	30.446	478	41.18	21	63.425	400	23.05	12	33.841	359	26.52	5
Okt. 7	52.541	282	50.52	45	30.924	470	41.39	46	63.825	394	23.17	29	34.200	353	26.57	13
17	52.823	273	50.07	66	31.394	455	41.85	70	64.219	382	23.46	44	34.553	343	26.70	21
27	53.096	259	49.41	83	31.849	430	42.55	93	64.601	363	23.90	61	34.896	327	26.91	31
Nov. 6	53.355	241	48.58	96	32.279	397	43.48	116	64.964	337	24.51	76	35.223	305	27.22	41
16	53.596	217	47.62	105	32.676	355	44.64	138	65.301	303	25.27	92	35.528	275	27.63	52
26	53.813	186	46.57	110	33.031	304	46.02	155	65.604	261	26.19	107	35.803	238	28.15	62
Dez. 6	53.999	152	45.47	109	33.335	241	47.57	170	65.865	211	27.26	118	36.041	195	28.77	72
16	54.151	110	44.38	105	33.576	173	49.27	180	66.076	155	28.44	127	36.236	144	29.49	80
25	54.261	67	43.33	97	33.749	97	51.07	183	66.231	92	29.71	131	36.380	88	30.29	86
35	54.328		42.36		33.846		52.90		66.323		31.02		36.468		31.15	
Mittl. Ort	48.884		49.74		25.314		56.59		58.870		35.45		29.619		36.40	
sec δ, tg δ	1.008		+0.130		1.713		+1.391		1.413		+0.998		1.256		+0.759	
a, *a′*	+3.2		+0.7		+4.9		+0.5		+4.4		+0.4		+4.1		+0.4	
b, *b′*	0.00		−1.00		0.00		−1.00		0.00		−1.00		0.00		−1.00	

Tag	229) η Columbae AR.		Dekl.		232) ν Orionis AR.		Dekl.		236) η Geminorum AR.		Dekl.		234) 22 H. Camelop. AR.		Dekl.	
1938	$5^h\ 57^m$		−42° 48′		$6^h\ 4^m$		+14° 46′		$6^h\ 11^m$		+22° 31′		$6^h\ 12^m$		+69° 20′	
	s		″		s		″		s		″		s		″	
Jan. 0	17.353	26	72.57	317	4.434	57	33.27	51	10.758	68	30.31	5	7.03	8	38.49	254
10	17.327	84	75.74	291	4.491	7	32.76	43	10.826	16	30.26	1	7.11	4	41.03	246
20	17.243	139	78.65	257	4.498	40	32.33	33	10.842	35	30.27	7	7.07	18	43.49	230
30	17.104	188	81.22	217	4.458	85	32.00	26	10.807	82	30.34	10	6.89	29	45.79	203
Febr. 9	16.916	229	83.39	173	4.373	123	31.74	20	10.725	124	30.44	11	6.60	39	47.82	168
19	16.687	260	85.12	126	4.250	153	31.54	15	10.601	157	30.55	9	6.21	46	49.50	127
März 1	16.427	281	86.38	76	4.097	175	31.39	10	10.444	179	30.64	4	5.75	52	50.77	80
11	16.146	289	87.14	27	3.922	184	31.29	8	10.265	191	30.68	0	5.23	55	51.57	31
21	15.857	287	87.41	23	3.738	183	31.21	5	10.074	192	30.68	5	4.68	55	51.88	20
31	15.570	273	87.18	70	3.555	171	31.16	3	9.882	181	30.63	11	4.13	53	51.68	69
Apr. 10	15.297	248	86.48	116	3.384	150	31.13	1	9.701	159	30.52	16	3.60	48	50.99	114
20	15.049	215	85.32	159	3.234	121	31.14	6	9.542	130	30.36	18	3.12	41	49.85	155
30	14.834	175	83.73	198	3.113	86	31.20	11	9.412	94	30.18	20	2.71	32	48.30	189
Mai 10	14.659	129	81.75	232	3.027	46	31.31	17	9.318	53	29.98	19	2.39	22	46.41	217
20	14.530	80	79.43	260	2.981	4	31.48	24	9.265	10	29.79	16	2.17	12	44.24	238
30	14.450	27	76.83	283	2.977	38	31.72	31	9.255	35	29.63	13	2.05	0	41.86	249
Juni 9	14.423	25	74.00	298	3.015	80	32.03	39	9.290	78	29.50	9	2.05	11	39.37	255
19	14.448	77	71.02	306	3.095	120	32.42	44	9.368	120	29.41	3	2.16	21	36.82	253
29	14.525	126	67.96	304	3.215	156	32.86	48	9.488	157	29.38	1	2.37	32	34.29	246
Juli 9	14.651	173	64.92	294	3.371	188	33.34	51	9.645	192	29.39	5	2.69	41	31.83	231
19	14.824	214	61.98	275	3.559	216	33.85	51	9.837	221	29.44	7	3.10	49	29.52	212
29	15.038	252	59.23	248	3.775	240	34.36	48	10.058	246	29.51	8	3.59	57	27.40	189
Aug. 8	15.290	284	56.75	210	4.015	259	34.84	42	10.304	267	29.59	8	4.16	63	25.51	163
18	15.574	309	54.65	166	4.274	274	35.26	33	10.571	285	29.67	4	4.79	68	23.88	132
28	15.883	328	52.99	116	4.548	285	35.59	22	10.856	296	29.71	0	5.47	72	22.56	101
Sept. 7	16.211	342	51.83	59	4.833	293	35.81	8	11.152	305	29.71	7	6.19	76	21.55	66
17	16.553	347	51.24	0	5.126	297	35.89	6	11.457	311	29.64	14	6.95	76	20.89	31
27	16.900	345	51.24	61	5.423	298	35.83	22	11.768	313	29.50	21	7.71	77	20.58	5
Okt. 7	17.245	336	51.85	121	5.721	294	35.61	37	12.081	311	29.29	28	8.48	76	20.63	42
17	17.581	320	53.06	177	6.015	287	35.24	50	12.392	304	29.01	33	9.24	74	21.05	79
27	17.901	296	54.83	228	6.302	276	34.74	60	12.696	293	28.68	36	9.98	70	21.84	116
Nov. 6	18.197	263	57.11	271	6.578	258	34.14	68	12.989	277	28.32	37	10.68	65	23.00	150
16	18.460	223	59.82	304	6.836	235	33.46	72	13.266	253	27.95	35	11.33	58	24.50	182
26	18.683	177	62.86	327	7.071	206	32.74	73	13.519	223	27.60	31	11.91	49	26.32	210
Dez. 6	18.860	125	66.13	338	7.277	170	32.01	69	13.742	186	27.29	25	12.40	39	28.42	233
16	[21] 18.985	69	69.51	338	[23] 7.447	129	31.32	63	[24] 13.928	144	27.04	17	[25] 12.79	28	30.75	247
25	19.054	9	72.89	328	7.576	83	30.69	55	14.072	96	26.87	9	13.07	16	33.22	256
35	19.063		76.17		7.659		30.14		14.168		26.78		13.23		35.78	
Mittl. Ort	14.937		64.78		1.943		38.49		8.136		35.53		1.12		41.77	
sec δ, tg δ	1.363		−0.927		1.034		+0.264		1.083		+0.415		2.835		+2.653	
a, *a′*	+1.8		+0.2		+3.4		−0.4		+3.6		−1.0		+6.6		−1.1	
b, *b′*	0.00		−1.00		0.00		−1.00		0.00		−1.00		−0.01		−1.00	

Scheinbare Sternörter 1938

Tag	240) ζ Canis maj. AR.		Dekl.		241) μ Geminorum AR.		Dekl.	
1938	$6^h\ 17^m$		−30° 1′		$6^h\ 19^m$		+22° 32′	
	s		″		s		″	
Jan. 0	58.255	26	71.82	288	15.253	77	44.18	7
10	58.281	26	74.70	267	15.330	24	44.11	1
20	58.255	77	77.37	239	15.354	28	44.12	7
30	58.178	124	79.76	205	15.326	75	44.19	11
Febr. 9	58.054	163	81.81	168	15.251	118	44.30	13
19	57.891	196	83.49	127	15.133	153	44.43	11
März 1	57.695	218	84.76	86	14.980	177	44.54	8
11	57.477	229	85.62	44	14.803	189	44.62	3
21	57.248	231	86.06	0	14.614	192	44.65	2
31	57.017	222	86.06	41	14.422	182	44.63	8
Apr. 10	56.795	203	85.65	81	14.240	163	44.55	13
20	56.592	177	84.84	119	14.077	134	44.42	16
30	56.415	143	83.65	155	13.943	99	44.26	18
Mai 10	56.272	105	82.10	186	13.844	59	44.08	18
20	56.167	63	80.24	213	13.785	16	43.90	17
30	56.104	19	78.11	236	13.769	27	43.73	14
Juni 9	56.085	26	75.75	253	13.796	70	43.59	10
19	56.111	68	73.22	262	13.866	112	43.49	6
29	56.179	110	70.60	264	13.978	150	43.43	3
Juli 9	56.289	149	67.96	258	14.128	184	43.40	1
19	56.438	184	65.38	245	14.312	214	43.41	3
29	56.622	216	62.93	224	14.526	241	43.44	3
Aug. 8	56.838	243	60.69	194	14.767	262	43.47	2
18	57.081	265	58.75	157	15.029	280	43.49	1
28	57.346	284	57.18	113	15.309	293	43.48	6
Sept. 7	57.630	297	56.05	65	15.602	304	43.42	13
17	57.927	305	55.40	12	15.906	310	43.29	20
27	58.232	308	55.28	42	16.216	314	43.09	27
Okt. 7	58.540	306	55.70	96	16.530	313	42.82	34
17	58.846	297	56.66	148	16.843	307	42.48	39
27	59.143	282	58.14	194	17.150	298	42.09	42
Nov. 6	59.425	260	60.08	234	17.448	282	41.67	43
16	59.685	231	62.42	266	17.730	260	41.24	40
26	59.916	195	65.08	288	17.990	231	40.84	36
Dez. 6	60.111	154	67.96	300	18.221	195	40.48	28
16	60.265	107	70.96	303	18.416	152	40.20	20
26	60.372	57	73.99	295	18.568	104	40.00	10
35	[26]60.429		76.94		[27]18.672		39.90	
Mittl. Ort	55.935		64.82		12.631		49.89	
sec δ, tg δ	1.155		−0.578		1.083		+0.415	
a, *a*′	+2.3		−1.6		+3.6		−1.7	
b, *b*′	0.00		−1.00		0.00		−1.00	

Tag	243) β Canis maj. AR.		Dekl.		242) ψ^1 Aurigae AR.		Dekl.	
1938	$6^h\ 19^m$		−17° 55′		$6^h\ 20^m$		+49° 19′	
	s		″		s		″	
Jan. 0	60.417	45	32.59	238	11.071	91	13.60	155
10	60.462	5	34.97	219	11.162	19	15.15	154
20	60.457	52	37.16	194	11.181	52	16.69	148
30	60.405	96	39.10	167	11.129	119	18.17	134
Febr. 9	60.309	135	40.77	136	11.010	178	19.51	114
19	60.174	166	42.13	103	10.832	226	20.65	90
März 1	60.008	188	43.16	68	10.606	260	21.55	60
11	59.820	199	43.84	36	10.346	278	22.15	27
21	59.621	201	44.20	1	10.068	280	22.42	5
31	59.420	192	44.21	32	9.788	269	22.37	37
Apr. 10	59.228	175	43.89	63	9.519	242	22.00	68
20	59.053	149	43.26	94	9.277	203	21.32	96
30	58.904	118	42.32	123	9.074	156	20.36	118
Mai 10	58.786	82	41.09	149	8.918	100	19.18	137
20	58.704	42	39.60	171	8.818	41	17.81	149
30	58.662	2	37.89	190	8.777	21	16.32	158
Juni 9	58.660	39	35.99	204	8.798	81	14.74	161
19	58.699	79	33.95	213	8.879	139	13.13	159
29	58.778	116	31.82	215	9.018	194	11.54	154
Juli 9	58.894	150	29.67	212	9.212	244	10.00	146
19	59.044	182	27.55	201	9.456	288	8.54	135
29	59.226	209	25.54	183	9.744	326	7.19	121
Aug. 8	59.435	232	23.71	159	10.070	358	5.98	106
18	59.667	252	22.12	128	10.428	385	4.92	90
28	59.919	268	20.84	92	10.813	406	4.02	72
Sept. 7	60.187	279	19.92	50	11.219	421	3.30	54
17	60.466	287	19.42	6	11.640	430	2.76	36
27	60.753	290	19.36	39	12.070	435	2.40	16
Okt. 7	61.043	288	19.75	84	12.505	433	2.24	4
17	61.331	282	20.59	128	12.938	425	2.28	26
27	61.613	270	21.87	167	13.363	410	2.54	47
Nov. 6	61.883	252	23.54	200	13.773	386	3.01	69
16	62.135	228	25.54	225	14.159	353	3.70	91
26	62.363	197	27.79	242	14.512	311	4.61	111
Dez. 6	62.560	161	30.21	252	14.823	259	5.72	129
16	62.721	118	32.73	252	15.082	199	7.01	143
26	62.839	72	35.25	244	15.281	131	8.44	152
35	[27]62.911		37.69		[27]15.412		9.96	
Mittl. Ort	58.133		25.79		7.536		18.44	
sec δ, tg δ	1.051		−0.323		1.534		+1.164	
a, *a*′	+2.6		−1.7		+4.6		−1.8	
b, *b*′	0.00		−1.00		−0.01		−1.00	

Tag	244) 8 Monocerotis AR.		244) Dekl.		245) α Argus AR.		245) Dekl.		246) 10 Monocerotis AR.		246) Dekl.		247) 8 Lyncis AR.		247) Dekl.	
1938	6ʰ 20ᵐ		+4° 37′		6ʰ 22ᵐ		−52° 39′		6ʰ 24ᵐ		−4° 43′		6ʰ 32ᵐ		+61° 31′	
	s		"		s		"		s		"		s		"	
Jan. 0	31.371	65	26.52	116	37.161	22	47.37	350	56.201	63	27.14	172	6.30	12	72.15	217
10	31.436	18	25.36	103	37.139	94	50.87	328	56.264	14	28.86	155	6.42	2	74.32	216
20	31.454	30	24.33	88	37.045	161	54.15	297	56.278	32	30.41	137	6.44	7	76.48	207
30	31.424	74	23.45	73	36.884	222	57.12	258	56.246	77	31.78	116	6.37	17	78.55	190
Febr. 9	31.350	113	22.72	57	36.662	275	59.70	214	56.169	116	32.94	93	6.20	25	80.45	163
19	31.237	145	22.15	42	36.387	315	61.84	166	56.053	147	33.87	70	5.95	31	82.08	131
März 1	31.092	167	21.73	28	36.072	344	63.50	115	55.906	169	34.57	47	5.64	36	83.39	92
11	30.925	178	21.45	14	35.728	361	64.65	62	55.737	182	35.04	24	5.28	39	84.31	50
21	30.747	181	21.31	0	35.367	363	65.27	9	55.555	184	35.28	2	4.89	40	84.81	6
31	30.566	172	21.31	12	35.004	352	65.36	42	55.371	176	35.30	19	4.49	39	84.87	38
Apr. 10	30.394	154	21.43	24	34.652	331	64.94	92	55.195	160	35.11	41	4.10	35	84.49	79
20	30.240	129	21.67	38	34.321	299	64.02	140	55.035	136	34.70	61	3.75	31	83.70	116
30	30.111	97	22.05	49	34.022	257	62.62	184	54.899	104	34.09	81	3.44	25	82.54	150
Mai 10	30.014	60	22.54	62	33.765	208	60.78	223	54.795	69	33.28	99	3.19	18	81.04	178
20	29.954	22	23.16	73	33.557	154	58.55	257	54.726	31	32.29	115	3.01	11	79.26	199
30	29.932	19	23.89	83	33.403	95	55.98	285	54.695	8	31.14	129	2.90	2	77.27	213
Juni 9	29.951	59	24.72	92	33.308	35	53.13	305	54.703	47	29.85	140	2.88	7	75.14	222
19	30.010	96	25.64	98	33.273	26	50.08	317	54.750	85	28.45	147	2.95	14	72.92	224
29	30.106	131	26.62	101	33.299	86	46.91	320	54.835	121	26.98	150	3.09	21	70.68	220
Juli 9	30.237	164	27.63	100	33.385	145	43.71	315	54.956	153	25.48	149	3.30	29	68.48	212
19	30.401	192	28.63	97	33.530	199	40.56	299	55.109	182	23.99	142	3.59	35	66.36	199
29	30.593	217	29.60	88	33.729	250	37.57	273	55.291	208	22.57	129	3.94	40	64.37	183
Aug. 8	30.810	238	30.48	76	33.979	295	34.84	239	55.499	229	21.28	112	4.34	45	62.54	162
18	31.048	254	31.24	59	34.274	333	32.45	197	55.728	248	20.16	89	4.79	50	60.92	140
28	31.302	268	31.83	40	34.607	365	30.48	145	55.976	262	19.27	62	5.29	53	59.52	115
Sept. 7	31.570	278	32.23	16	34.972	388	29.03	88	56.238	272	18.65	31	5.82	55	58.37	87
17	31.848	284	32.39	8	35.360	403	28.15	27	56.510	280	18.34	2	6.37	57	57.50	59
27	32.132	287	32.31	34	35.763	407	27.88	37	56.790	285	18.36	37	6.94	58	56.91	29
Okt. 7	32.419	287	31.97	59	36.170	403	28.25	102	57.075	284	18.73	71	7.52	58	56.62	2
17	32.706	283	31.38	83	36.573	388	29.27	164	57.359	280	19.44	102	8.10	58	56.64	34
27	32.989	273	30.55	102	36.961	362	30.91	220	57.639	270	20.46	131	8.68	55	56.98	68
Nov. 6	33.262	257	29.53	118	37.323	325	33.11	269	57.909	255	21.77	155	9.23	52	57.66	99
16	33.519	237	28.35	129	37.648	279	35.80	310	58.164	234	23.32	173	9.75	47	58.65	130
26	33.756	209	27.06	135	37.927	224	38.90	340	58.398	206	25.05	183	10.22	42	59.95	158
Dez. 6	33.965	176	25.71	135	38.151	161	42.30	357	58.604	173	26.88	188	10.64	35	61.53	183
16	34.141	136	24.36	130	38.312	93	45.87	364	58.777	132	28.76	185	10.99	26	63.36	202
26	$_{27}$34.277	92	23.06	122	$_{27}$38.405	21	49.51	358	$_{28}$58.909	89	30.61	178	$_{30}$11.25	18	65.38	214
35	34.369		21.84		38.426		53.09		58.998		32.39		11.43		67.52	
Mittl. Ort	28.990		32.84		34.454		40.44		53.883		20.51		1.75		77.81	
sec δ, tg δ	1.003		+0.081		1.649		−1.311		1.003		−0.083		2.098		+1.845	
a, *a′*	+3.2		−1.8		+1.3		−2.0		+3.0		−2.2		+5.5		−2.8	
b, *b′*	0.00		−1.00		+0.01		−1.00		0.00		−0.99		−0.02		−0.99	

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Tag	249) ξ² Canis maj. AR.		Dekl.		251) γ Geminorum AR.		Dekl.	
1938	6h 32m		−22° 54′		6h 34m		+16° 27′	
	s		″		s		″	
Jan. 0	29.744	52	58.98	265	10.383	88	7.10	48
10	29.796	1	61.63	246	10.471	37	6.62	37
20	29.797	49	64.09	222	10.508	14	6.25	26
30	29.748	95	66.31	192	10.494	62	5.99	17
Febr. 9	29.653	136	68.23	159	10.432	105	5.82	9
19	29.517	169	69.82	123	10.327	139	5.73	4
März 1	29.348	193	71.05	86	10.188	165	5.69	1
11	29.155	207	71.91	49	10.023	181	5.68	2
21	28.948	210	72.40	11	9.842	184	5.70	3
31	28.738	204	72.51	26	9.658	178	5.73	3
Apr. 10	28.534	189	72.25	62	9.480	162	5.76	4
20	28.345	165	71.63	96	9.318	137	5.80	6
30	28.180	134	70.67	127	9.181	105	5.86	7
Mai 10	28.046	99	69.40	157	9.076	68	5.93	10
20	27.947	60	67.83	182	9.008	29	6.03	14
30	27.887	19	66.01	204	8.979	13	6.17	19
Juni 9	27.868	21	63.97	220	8.992	53	6.36	22
19	27.889	62	61.77	230	9.045	93	6.58	26
29	27.951	101	59.47	234	9.138	129	6.84	29
Juli 9	28.052	137	57.13	231	9.267	162	7.13	30
19	28.189	170	54.82	220	9.429	193	7.43	29
29	28.359	199	52.62	202	9.622	219	7.72	26
Aug. 8	28.558	226	50.60	177	9.841	242	7.98	20
18	28.784	248	48.83	145	10.083	260	8.18	12
28	29.032	267	47.38	106	10.343	275	8.30	1
Sept. 7	29.299	281	46.32	62	10.618	287	8.31	11
17	29.580	290	45.70	15	10.905	296	8.20	24
27	29.870	296	45.55	35	11.201	302	7.96	38
Okt. 7	30.166	297	45.90	84	11.503	303	7.58	51
17	30.463	292	46.74	131	11.806	301	7.07	63
27	30.755	281	48.05	174	12.107	294	6.44	71
Nov. 6	31.036	264	49.79	212	12.401	280	5.73	77
16	31.300	240	51.91	241	12.681	261	4.96	78
26	31.540	208	54.32	262	12.942	234	4.18	77
Dez. 6	31.748	171	56.94	275	13.176	201	3.41	72
16	31.919	128	59.69	277	13.377	160	2.69	63
26	30 32.047	80	62.46	271	30 13.537	114	2.06	53
35	32.127		65.17		13.651		1.53	
Mittl. Ort	27.442		52.21		7.866		13.77	
sec δ, tg δ	1.086		−0.423		1.043		+0.295	
a, *a′*	+2.5		−2.8		+3.5		−3.0	
b, *b′*	0.00		−0.99		0.00		−0.99	

Tag	250) 51 Aurigae AR.		Dekl.		248) 23 H. Camelop. AR.		Dekl.	
1938	6h 34m		+39° 26′		6h 35m		+79° 37′	
	s		″		s		″	
Jan. 0	24.934	104	44.37	95	51.97	20	65.32	291
10	25.038	41	45.32	100	52.17	6	68.23	288
20	25.079	21	46.32	101	52.11	31	71.11	274
30	25.058	79	47.33	96	51.80	53	73.85	249
Febr. 9	24.979	133	48.29	86	51.27	73	76.34	213
19	24.846	176	49.15	72	50.54	90	78.47	170
März 1	24.670	207	49.87	52	49.64	103	80.17	120
11	24.463	227	50.39	31	48.61	110	81.37	65
21	24.236	233	50.70	8	47.51	113	82.02	8
31	24.003	225	50.78	15	46.38	111	82.10	48
Apr. 10	23.778	205	50.63	38	45.27	104	81.62	102
20	23.573	174	50.25	58	44.23	93	80.60	152
30	23.399	135	49.67	75	43.30	78	79.08	195
Mai 10	23.264	90	48.92	88	42.52	61	77.13	232
20	23.174	42	48.04	99	41.91	42	74.81	261
30	23.132	10	47.05	105	41.49	21	72.20	281
Juni 9	23.142	61	46.00	108	41.28	0	69.39	293
19	23.203	109	44.92	109	41.28	21	66.46	298
29	23.312	155	43.83	106	41.49	41	63.48	295
Juli 9	23.467	198	42.77	101	41.90	61	60.53	284
19	23.665	236	41.76	96	42.51	79	57.69	268
29	23.901	268	40.80	88	43.30	94	55.01	246
Aug. 8	24.169	296	39.92	80	44.24	109	52.55	218
18	24.465	320	39.12	73	45.33	121	50.37	187
28	24.785	339	38.39	64	46.54	131	48.50	152
Sept. 7	25.124	355	37.75	56	47.85	139	46.98	114
17	25.479	365	37.19	46	49.24	144	45.84	72
27	25.844	371	36.73	36	50.68	146	45.12	30
Okt. 7	26.215	373	36.37	26	52.14	146	44.82	14
17	26.588	370	36.11	13	53.60	143	44.96	59
27	26.958	360	35.98	0	55.03	137	45.55	103
Nov. 6	27.318	343	35.98	15	56.40	127	46.58	146
16	27.661	319	36.13	31	57.67	114	48.04	187
26	27.980	286	36.44	48	58.81	99	49.91	223
Dez. 6	28.266	243	36.92	64	59.80	79	52.14	253
16	28.509	194	37.56	79	60.59	58	54.67	276
26	30 28.703	138	38.35	91	31 61.17	34	57.43	289
35	28.841		39.26		61.51		60.32	
Mittl. Ort	21.874		50.72		41.36		70.92	
sec δ, tg δ	1.295		+0.823		5.559		+5.468	
a, *a′*	+4.2		−3.0		+10.3		−3.1	
b, *b′*	−0.01		−0.99		− 0.06		−0.99	

Tag	252) ν Argus				253) *S* Monocerotis				254) ε Geminorum				256) ξ Geminorum			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$6^h\ 35^m$		$-43°\ 8'$		$6^h\ 37^m$		$+9°\ 57'$		$6^h\ 40^m$		$+25°\ 11'$		$6^h\ 41^m$		$+12°\ 57'$	
	s		"		s		"		s		"		s		"	
Jan. 0*)	54.320	24	33.73	337	^{0}36.305	86	9.90	88	9.823	100	32.45	5	51.101	92	43.20	72
10	54.344	38	37.10	318	36.391	37	9.02	77	^{1}9.923	46	32.50	16	^{1}51.193	42	42.48	59
20	54.306	98	40.28	289	36.428	13	8.25	62	9.969	8	32.66	23	51.235	8	41.89	47
30	54.208	152	43.17	254	36.415	59	7.63	49	9.961	60	32.89	28	51.227	56	41.42	35
Febr. 9	54.056	200	45.71	213	36.356	101	7.14	37	9.901	105	33.17	29	51.171	99	41.07	24
19	53.856	238	47.84	169	36.255	136	6.77	25	9.796	144	33.46	28	51.072	134	40.83	15
März 1	53.618	266	49.53	122	36.119	161	6.52	15	9.652	172	33.74	23	50.938	160	40.68	8
11	53.352	283	50.75	72	35.958	176	6.37	7	9.480	190	33.97	17	50.778	176	40.60	2
21	53.069	288	51.47	24	35.782	181	6.30	1	9.290	195	34.14	8	50.602	182	40.58	3
31	52.781	282	51.71	26	35.601	175	6.31	9	9.095	189	34.22	1	50.420	177	40.61	7
Apr. 10	52.499	265	51.45	73	35.426	159	6.40	15	8.906	173	34.21	8	50.243	162	40.68	11
20	52.234	238	50.72	118	35.267	136	6.55	23	8.733	148	34.13	16	50.081	139	40.79	15
30	51.996	205	49.54	160	35.131	106	6.78	30	8.585	115	33.97	22	49.942	108	40.94	20
Mai 10	51.791	164	47.94	198	35.025	70	7.08	38	8.470	77	33.75	26	49.834	74	41.14	25
20	51.627	119	45.96	232	34.955	32	7.46	45	8.393	35	33.49	28	49.760	35	41.39	30
30	51.508	71	43.64	260	34.923	7	7.91	52	8.358	8	33.21	29	49.725	5	41.69	35
Juni 9	51.437	20	41.04	280	34.930	46	8.43	59	8.366	51	32.92	28	49.730	44	42.04	41
19	51.417	30	38.24	294	34.976	85	9.02	63	8.417	93	32.64	27	49.774	82	42.45	44
29	51.447	79	35.30	300	35.061	121	9.65	65	8.510	132	32.37	24	49.856	119	42.89	46
Juli 9	51.526	126	32.30	296	35.182	153	10.30	66	8.642	167	32.13	23	49.975	152	43.35	47
19	51.652	172	29.34	283	35.335	182	10.96	63	8.809	199	31.90	22	50.127	182	43.82	44
29	51.824	213	26.51	262	35.517	209	11.59	57	9.008	228	31.68	21	50.309	208	44.26	40
Aug. 8	52.037	250	23.89	232	35.726	231	12.16	47	9.236	252	31.47	22	50.517	231	44.66	32
18	52.287	282	21.57	192	35.957	249	12.63	35	9.488	272	31.25	25	50.748	250	44.98	20
28	52.569	308	19.65	145	36.206	265	12.98	19	9.760	289	31.00	28	50.998	267	45.18	8
Sept. 7	52.877	330	18.20	92	36.471	278	13.17	1	10.049	303	30.72	33	51.265	279	45.26	8
17	53.207	344	17.28	34	36.749	286	13.18	19	10.352	313	30.39	38	51.544	289	45.18	25
27	53.551	352	16.94	27	37.035	293	12.99	40	10.665	319	30.01	42	51.833	295	44.93	42
Okt. 7	53.903	351	17.21	88	37.328	295	12.59	59	10.984	322	29.59	46	52.128	299	44.51	59
17	54.254	344	18.09	147	37.623	292	12.00	77	11.306	321	29.13	48	52.427	298	43.92	74
27	54.598	327	19.56	203	37.915	286	11.23	92	11.627	314	28.65	49	52.725	291	43.18	86
Nov. 6	54.925	301	21.59	251	38.201	273	10.31	103	11.941	301	28.16	46	53.016	279	42.32	94
16	55.226	268	24.10	290	38.474	255	9.28	111	12.242	281	27.70	40	53.295	261	41.38	99
26	55.494	225	27.00	320	38.729	229	8.17	113	12.523	253	27.30	32	53.556	236	40.39	100
Dez. 6	55.719	175	30.20	339	38.958	196	7.04	110	12.776	219	26.98	23	53.792	203	39.39	95
16	55.894	120	33.59	347	39.154	157	5.94	104	12.995	177	26.75	11	53.995	164	38.44	88
26	56.014	61	37.06	343	39.311	113	4.90	94	^{32}13.172	129	26.64	1	54.159	119	37.56	77
35	^{31}56.075		40.49		^{31}39.424		3.96		13.301		26.65		^{32}54.278		36.79	
Mittl. Ort	51.820		27.24		33.871		16.77		7.160		39.39		48.634		50.25	
sec δ, tg δ	1.371		−0.937		1.015		+0.176		1.105		+0.470		1.026		+0.230	
a, *a′*	+1.8		−3.1		+3.3		−3.3		+3.7		−3.5		+3.4		−3.6	
b, *b′*	+0.01		−0.99		0.00		−0.99		−0.01		−0.98		0.00		−0.98	

*) Bei Stern 254) und 256) lies Jan. 1.

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Tag	257) α Canis maj. [1]) AR.		Dekl.		258) 18 Monocerotis AR.		Dekl.		262) α Pictoris AR.		Dekl.		261) ϑ Geminorum AR.		Dekl.	
1938	$6^h\ 42^m$		$-16°\ 37'$		$6^h\ 44^m$		$+2°\ 28'$		$6^h\ 47^m$		$-61°\ 52'$		$6^h\ 48^m$		$+34°\ 2'$	
	s		"		s		"		s		"		s		"	
Jan. 1	[1] 27.315	64	56.21	241	40.117	87	45.87	137	36.61	2	33.86	372	45.182	116	8.55	59
10	27.379	14	58.62	224	[2] 40.204	38	44.50	121	[2] 36.59	11	37.58	354	[3] 45.298	57	9.14	68
20	27.393	35	60.86	201	40.242	10	43.29	105	36.48	19	41.12	328	45.355	1	9.82	74
30	27.358	80	62.87	173	40.232	56	42.24	87	36.29	28	44.40	293	45.354	58	10.56	74
Febr. 9	27.278	121	64.60	143	40.176	98	41.37	69	36.01	34	47.33	251	45.296	110	11.30	71
19	27.157	155	66.03	111	40.078	133	40.68	51	35.67	40	49.84	205	45.186	152	12.01	62
März 1	27.002	179	67.14	79	39.945	158	40.17	34	35.27	44	51.89	155	45.034	185	12.63	50
11	26.823	193	67.93	46	39.787	174	39.83	18	34.83	47	53.44	102	44.849	206	13.13	34
21	26.630	198	68.39	13	39.613	179	39.65	3	34.36	48	54.46	48	44.643	214	13.47	18
31	26.432	192	68.52	19	39.434	175	39.62	12	33.88	48	54.94	6	44.429	209	13.65	1
Apr. 10	26.240	178	68.33	50	39.259	162	39.74	26	33.40	46	54.88	58	44.220	193	13.64	18
20	26.062	155	67.83	80	39.097	139	40.00	40	32.94	42	54.30	109	44.027	168	13.46	34
30	25.907	126	67.03	107	38.958	110	40.40	54	32.52	39	53.21	157	43.859	133	13.12	49
Mai 10	25.781	91	65.96	133	38.848	77	40.94	66	32.13	33	51.64	201	43.726	93	12.63	60
20	25.690	55	64.63	155	38.771	41	41.60	79	31.80	26	49.63	240	43.633	49	12.03	69
30	25.635	15	63.08	173	38.730	3	42.39	88	31.54	20	47.23	272	43.584	2	11.34	75
Juni 9	25.620	24	61.35	188	38.727	36	43.27	97	31.34	13	44.51	298	43.582	44	10.59	78
19	25.644	63	59.47	198	38.763	73	44.24	103	31.21	5	41.53	316	43.626	89	9.81	80
29	25.707	100	57.49	201	38.836	108	45.27	106	31.16	3	38.37	325	43.715	132	9.01	80
Juli 9	25.807	134	55.48	198	38.944	141	46.33	105	31.19	10	35.12	325	43.847	171	8.21	77
19	25.941	166	53.50	189	39.085	170	47.38	101	31.29	18	31.87	315	44.018	207	7.44	74
29	26.107	194	51.61	173	39.255	197	48.39	91	31.47	25	28.72	295	44.225	239	6.70	72
Aug. 8	26.301	219	49.88	151	39.452	219	49.30	78	31.72	32	25.77	264	44.464	266	5.98	68
18	26.520	240	48.37	122	39.671	239	50.08	61	32.04	39	23.13	225	44.730	289	5.30	65
28	26.760	258	47.15	88	39.910	255	50.69	39	32.41	43	20.88	177	45.019	310	4.65	62
Sept. 7	27.018	272	46.27	48	40.165	269	51.08	15	32.84	46	19.11	121	45.329	325	4.03	59
17	27.290	282	45.79	5	40.434	279	51.23	12	33.30	49	17.90	59	45.654	338	3.44	56
27	27.572	289	45.74	39	40.713	286	51.11	40	33.79	50	17.31	5	45.992	346	2.88	51
Okt. 7	27.861	290	46.13	84	40.999	289	50.71	67	34.29	51	17.36	71	46.338	351	2.37	46
17	28.151	287	46.97	127	41.288	288	50.04	93	34.80	50	18.07	136	46.689	351	1.91	39
27	28.438	279	48.24	165	41.576	283	49.11	115	35.30	47	19.43	199	47.040	344	1.52	30
Nov. 6	28.717	263	49.89	198	41.859	270	47.96	133	35.77	42	21.42	253	47.384	332	1.22	18
16	28.980	242	51.87	224	42.129	253	46.63	146	36.19	37	23.95	299	47.716	311	1.04	6
26	29.222	213	54.11	243	42.382	227	45.17	153	36.56	30	26.94	335	48.027	282	0.98	8
Dez. 6	29.435	178	56.54	253	42.609	196	43.64	154	36.86	22	30.29	361	48.309	245	1.06	25
16	29.613	137	59.07	254	42.805	157	42.10	151	37.08	13	33.90	374	48.554	200	1.31	39
26	29.750	92	61.61	247	42.962	113	40.59	142	37.21	5	37.64	374	48.754	147	1.70	53
35	[32] 29.842		64.08		[33] 43.075		39.17		[34] 37.26		41.38		[34] 48.901		2.23	
Mittl. Ort	25.018		49.19		37.753		52.94		33.40		28.36		42.315		16.05	
sec δ, tg δ	1.044		−0.299		1.001		+0.043		2.121		−1.871		1.207		+0.675	
a, a′	+2.7		−3.7		+3.1		−3.9		+0.6		−4.1		+4.0		−4.2	
b, b′	0.00		−0.98		0.00		−0.98		+0.03		−0.98		−0.01		−0.98	

[1]) Ort des Hauptsterns; die jährliche Parallaxe (0."371) ist bereits berücksichtigt.

Tag	266) ϑ Canis maj. AR.		266) ϑ Canis maj. Dekl.		265) 15 Lyncis AR.		265) 15 Lyncis Dekl.	
1938	6ʰ 51ᵐ		−11° 57′		6ʰ 51ᵐ		+58° 30′	
Jan. 1	20.866 s	81	41.64″	218	59.032 s	153	15.68″	199
10	[3] 20.947	33	43.82	203	[4] 59.185	63	17.67	203
20	20.980	17	45.85	182	59.248	27	19.70	201
30	20.963	63	47.67	157	59.221	114	21.71	189
Febr. 9	20.900	105	49.24	130	59.107	193	23.60	169
19	20.795	140	50.54	102	58.914	259	25.29	142
März 1	20.655	166	51.56	73	58.655	311	26.71	108
11	20.489	182	52.29	45	58.344	343	27.79	71
21	20.307	189	52.74	15	58.001	358	28.50	30
31	20.118	186	52.89	13	57.643	354	28.80	12
Apr. 10	19.932	174	52.76	40	57.289	331	28.68	52
20	19.758	152	52.36	66	56.958	294	28.16	90
30	19.606	126	51.70	91	56.664	244	27.26	123
Mai 10	19.480	93	50.79	114	56.420	184	26.03	153
20	19.387	58	49.65	135	56.236	116	24.50	176
30	19.329	20	48.30	152	56.120	45	22.74	193
Juni 9	19.309	18	46.78	166	56.075	27	20.81	206
19	19.327	55	45.12	175	56.102	100	18.75	211
29	19.382	90	43.37	179	56.202	168	16.64	212
Juli 9	19.472	125	41.58	179	56.370	233	14.52	209
19	19.597	156	39.79	171	56.603	293	12.43	200
29	19.753	184	38.08	158	56.896	346	10.43	188
Aug. 8	19.937	208	36.50	139	57.242	393	8.55	172
18	20.145	231	35.11	113	57.635	434	6.83	154
28	20.376	249	33.98	81	58.069	468	5.29	133
Sept. 7	20.625	265	33.17	47	58.537	495	3.96	110
17	20.890	277	32.70	8	59.032	516	2.86	85
27	21.167	285	32.62	33	59.548	529	2.01	58
Okt. 7	21.452	289	32.95	74	60.077	536	1.43	29
17	21.741	288	33.69	112	60.613	533	1.14	1
27	22.029	282	34.81	149	61.146	522	1.15	33
Nov. 6	22.311	270	36.30	179	61.668	498	1.48	65
16	22.581	252	38.09	203	62.166	463	2.13	96
26	22.833	225	40.12	220	62.629	417	3.09	125
Dez. 6	23.058	192	42.32	229	63.046	356	4.34	153
16	23.250	154	44.61	230	63.402	285	5.87	176
26	23.404	108	46.91	224	63.687	203	7.63	194
35*)	[35] 23.512		49.15		[35] 63.890		9.57	
Mittl. Ort	18.566		34.74		54.875		23.39	
sec δ, tg δ	1.022		−0.212		1.914		+1.632	
a, *a′*	+2.8		−4.5		+5.2		−4.5	
b, *b′*	0.00		−0.98		−0.02		−0.97	

Tag	268) ε Canis maj. AR.		268) ε Canis maj. Dekl.		269) ζ Geminorum AR.		269) ζ Geminorum Dekl.	
1938	6ʰ 56ᵐ		−28° 53′		7ʰ 0ᵐ		+20° 39′	
Jan. 1	13.648 s	70	18.03″	298	28.570 s	117	38.45″	28
10	[5] 13.718	17	21.01	282	[6] 28.687	65	38.17	15
20	13.735	36	23.83	258	28.752	11	38.02	3
30	13.699	87	26.41	228	28.763	40	37.99	7
Febr. 9	13.612	131	28.69	194	28.723	87	38.06	13
19	13.481	168	30.63	156	28.636	126	38.19	17
März 1	13.313	197	32.19	117	28.510	157	38.36	19
11	13.116	215	33.36	75	28.353	177	38.55	17
21	12.901	224	34.11	34	28.176	186	38.72	15
31	12.677	220	34.45	6	27.990	184	38.87	10
Apr. 10	12.457	208	34.39	47	27.806	172	38.97	7
20	12.249	189	33.92	86	27.634	151	39.04	2
30	12.060	160	33.06	122	27.483	122	39.06	1
Mai 10	11.900	128	31.84	155	27.361	87	39.05	3
20	11.772	90	30.29	185	27.274	50	39.02	4
30	11.682	51	28.44	211	27.224	10	38.98	5
Juni 9	11.631	9	26.33	230	27.214	30	38.93	5
19	11.622	32	24.03	244	27.244	70	38.88	3
29	11.654	72	21.59	251	27.314	107	38.85	4
Juli 9	11.726	110	19.08	250	27.421	142	38.81	4
19	11.836	147	16.58	242	27.563	174	38.77	5
29	11.983	180	14.16	226	27.737	202	38.72	8
Aug. 8	12.163	211	11.90	201	27.939	228	38.64	13
18	12.374	238	9.89	168	28.167	249	38.51	19
28	12.612	261	8.21	129	28.416	268	38.32	27
Sept. 7	12.873	280	6.92	84	28.684	284	38.05	36
17	13.153	296	6.08	33	28.968	297	37.69	46
27	13.449	306	5.75	19	29.265	307	37.23	55
Okt. 7	13.755	310	5.94	73	29.572	313	36.68	65
17	14.065	309	6.67	125	29.885	315	36.03	71
27	14.374	302	7.92	174	30.200	311	35.32	75
Nov. 6	14.676	286	9.66	217	30.511	302	34.57	77
16	14.962	263	11.83	253	30.813	286	33.80	74
26	15.225	233	14.36	280	31.099	262	33.06	68
Dez. 6	15.458	195	17.16	297	31.361	230	32.38	59
16	15.653	151	20.13	304	31.591	191	31.79	48
26	15.804	100	23.17	303	31.782	144	31.31	35
35*)	15.904		26.20		31.926		30.96	
Mittl. Ort	11.302		11.74		26.010		46.52	
sec δ, tg δ	1.142		−0.552		1.069		+0.377	
a, *a′*	+2.4		−4.9		+3.6		−5.2	
b, *b′*	+0.01		−0.97		−0.01		−0.97	

*) Bei Stern 268) und 269) lies Dez. 36.

Scheinbare Sternörter 1938

Tag	271) γ Canis maj.				273) δ Canis maj.				274) 63 Aurigae				277) λ Geminorum			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$7^h\ 0^m$		$-15°\ 32'$		$7^h\ 5^m$		$-26°\ 17'$		$7^h\ 7^m$		$+39°\ 25'$		$7^h\ 14^m$		$+16°\ 38'$	
Jan. 1	59.548 s	86	32.42 "	240	54.506 s	85	43.31 "	291	26.687 s	144	15.99 "	87	34.372 s	127	64.82 "	58
10	^{6}59.634	41	34.82	224	^{7}54.591	31	46.22	276	^{7}26.831	81	16.86	99	^{9}34.499	77	64.24	42
20	59.675	12	37.06	203	54.622	22	48.98	252	26.912	18	17.85	106	34.576	24	63.82	29
30	59.663	59	39.09	177	54.600	72	51.50	225	26.930	44	18.91	107	34.600	27	63.53	15
Febr. 9	59.604	102	40.86	149	54.528	117	53.75	192	26.886	102	19.98	102	34.573	75	63.38	5
19	59.502	138	42.35	119	54.411	155	55.67	156	26.784	151	21.00	92	34.498	114	63.33	4
März 1	59.364	166	43.54	87	54.256	184	57.23	118	26.633	188	21.92	77	34.384	146	63.37	10
11	59.198	184	44.41	55	54.072	204	58.41	79	26.445	215	22.69	57	34.238	168	63.47	13
21	59.014	192	44.96	24	53.868	214	59.20	39	26.230	228	23.26	36	34.070	180	63.60	15
31	58.822	191	45.20	7	53.654	213	59.59	0	26.002	227	23.62	12	33.890	179	63.75	15
Apr. 10	58.631	179	45.13	38	53.441	202	59.59	38	25.775	215	23.74	12	33.711	170	63.90	15
20	58.452	160	44.75	67	53.239	183	59.21	75	25.560	191	23.62	34	33.541	151	64.05	14
30	58.292	135	44.08	94	53.056	158	58.46	111	25.369	158	23.28	54	33.390	126	64.19	14
Mai 10	58.157	103	43.14	120	52.898	127	57.35	143	25.211	118	22.74	72	33.264	95	64.33	14
20	58.054	69	41.94	143	52.771	91	55.92	171	25.093	74	22.02	87	33.169	59	64.47	14
30	57.985	32	40.51	162	52.680	53	54.21	197	25.019	26	21.15	99	33.110	22	64.61	15
Juni 9	57.953	6	38.89	178	52.627	14	52.24	217	24.993	23	20.16	107	33.088	17	64.76	16
19	57.959	43	37.11	188	52.613	26	50.07	231	25.016	70	19.09	112	33.105	55	64.92	17
29	58.002	79	35.23	194	52.639	65	47.76	238	25.086	116	17.97	114	33.160	90	65.09	17
Juli 9	58.081	114	33.29	193	52.704	102	45.38	238	25.202	158	16.83	115	33.250	124	65.26	15
19	58.195	146	31.36	187	52.806	138	43.00	232	25.360	198	15.68	114	33.374	156	65.41	12
29	58.341	175	29.49	173	52.944	171	40.68	217	25.558	234	14.54	111	33.530	185	65.53	7
Aug. 8	58.516	202	27.76	153	53.115	200	38.51	194	25.792	265	13.43	106	33.715	210	65.60	1
18	58.718	225	26.23	126	53.315	228	36.57	164	26.057	292	12.37	102	33.925	233	65.61	9
28	58.943	246	24.97	94	53.543	252	34.93	126	26.349	317	11.35	95	34.158	252	65.52	21
Sept. 7	59.189	263	24.03	57	53.795	272	33.67	83	26.666	337	10.40	89	34.410	270	65.31	33
17	59.452	276	23.46	15	54.067	288	32.84	35	27.003	354	9.51	81	34.680	285	64.98	47
27	59.728	286	23.31	28	54.355	299	32.49	16	27.357	366	8.70	73	34.965	297	64.51	61
Okt. 7	60.014	293	23.59	72	54.654	306	32.65	68	27.723	374	7.97	63	35.262	305	63.90	74
17	60.307	293	24.31	114	54.960	307	33.33	119	28.097	377	7.34	48	35.567	309	63.16	85
27	60.600	288	25.45	154	55.267	302	34.52	166	28.474	375	6.86	34	35.876	308	62.31	94
Nov. 6	60.888	277	26.99	187	55.569	288	36.18	208	28.849	363	6.52	18	36.184	302	61.37	99
16	61.165	259	28.86	214	55.857	268	38.26	244	29.212	344	6.34	2	36.486	287	60.38	99
26	61.424	233	31.00	235	56.125	241	40.70	271	29.556	317	6.36	22	36.773	266	59.39	96
Dez. 6	61.657	200	33.35	246	56.366	204	43.41	288	29.873	279	6.58	42	37.039	236	58.43	88
16	61.857	161	35.81	249	56.570	162	46.29	296	30.152	232	7.00	61	37.275	199	57.55	78
26	62.018	116	38.30	245	56.732	113	49.25	294	30.384	178	7.61	80	37.474	155	56.77	65
36	62.134		40.75		56.845		52.19		30.562		8.41		37.629		56.12	
Mittl. Ort	57.249		25.64		52.175		37.09		23.688		24.97		31.891		73.43	
sec δ, tg δ	1.038		−0.278		1.115		−0.494		1.295		+0.822		1.044		+0.299	
a, *a′*	+2.7		−5.3		+2.4		−5.7		+4.1		−5.8		+3.5		−6.4	
b, *b′*	0.00		−0.96		+0.01		−0.96		−0.02		−0.96		−0.01		−0.95	

Tag	278) π Argus				279) δ Geminorum				281) δ Volantis				280) 19 Lyncis seq.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$7^h\ 14^m$		$-36°\ 59'$		$7^h\ 16^m$		$+22°\ 5'$		$7^h\ 16^m$		$-67°\ 50'$		$7^h\ 17^m$		$+55°\ 23'$	
	s		"		s		"		s		"		s		"	
Jan. 1	9 59.562	84	12.13	332	10 27.923	134	44.59	23	10 55.95	3	41.69	383	10 52.795	190	51.32	175
10	59.646	26	15.45	319	28.057	82	44.36	9	55.98	9	45.52	373	52.985	107	53.07	187
20	59.672	33	18.64	297	28.139	28	44.27	4	55.89	20	49.25	354	53.092	21	54.94	192
30	59.639	87	21.61	268	28.167	26	44.31	15	55.69	30	52.79	325	53.113	62	56.86	187
Febr. 9	59.552	137	24.29	233	28.141	74	44.46	23	55.39	39	56.04	289	53.051	139	58.73	174
19	59.415	180	26.62	194	28.067	117	44.69	27	55.00	47	58.93	247	52.912	206	60.47	154
März 1	59.235	213	28.56	151	27.950	149	44.96	28	54.53	53	61.40	200	52.706	260	62.01	127
11	59.022	234	30.07	106	27.801	173	45.24	27	54.00	57	63.40	150	52.446	298	63.28	95
21	58.788	247	31.13	61	27.628	185	45.51	23	53.43	60	64.90	97	52.148	319	64.23	58
31	58.541	249	31.74	16	27.443	185	45.74	17	52.83	61	65.87	43	51.829	323	64.81	19
Apr. 10	58.292	239	31.90	30	27.258	176	45.91	11	52.22	59	66.30	11	51.506	311	65.00	20
20	58.053	222	31.60	73	27.082	158	46.02	6	51.63	57	66.19	63	51.195	283	64.80	56
30	57.831	196	30.87	115	26.924	131	46.08	1	51.06	53	65.56	114	50.912	243	64.24	91
Mai 10	57.635	164	29.72	153	26.793	98	46.07	5	50.53	47	64.42	162	50.669	193	63.33	122
20	57.471	127	28.19	189	26.695	62	46.02	8	50.06	40	62.80	206	50.476	136	62.11	149
30	57.344	87	26.30	218	26.633	24	45.94	12	49.66	33	60.74	243	50.340	73	60.62	169
Juni 9	57.257	44	24.12	243	26.609	16	45.82	13	49.33	24	58.31	276	50.267	10	58.93	185
19	57.213	1	21.69	261	26.625	55	45.69	14	49.09	16	55.55	300	50.257	55	57.08	197
29	57.212	42	19.08	272	26.680	92	45.55	16	48.93	6	52.55	316	50.312	118	55.11	202
Juli 9	57.254	85	16.36	275	26.772	128	45.39	17	48.87	3	49.39	323	50.430	177	53.09	203
19	57.339	126	13.61	268	26.900	160	45.22	20	48.90	13	46.16	320	50.607	233	51.06	201
29	57.465	165	10.93	254	27.060	190	45.02	23	49.03	23	42.96	307	50.840	284	49.05	194
Aug. 8	57.630	201	8.39	230	27.250	216	44.79	28	49.26	31	39.89	284	51.124	330	47.11	184
18	57.831	234	6.09	199	27.466	239	44.51	34	49.57	39	37.05	251	51.454	371	45.27	171
28	58.065	264	4.10	158	27.705	261	44.17	42	49.96	47	34.54	207	51.825	407	43.56	156
Sept. 7	58.329	289	2.52	111	27.966	279	43.75	50	50.43	53	32.47	156	52.232	437	42.00	137
17	58.618	309	1.41	58	28.245	294	43.25	59	50.96	58	30.91	97	52.669	462	40.63	116
27	58.927	324	0.83	1	28.539	306	42.66	68	51.54	61	29.94	34	53.131	481	39.47	93
Okt. 7	59.251	334	0.82	57	28.845	315	41.98	75	52.15	63	29.60	32	53.612	494	38.54	67
17	59.585	335	1.39	114	29.160	320	41.23	80	52.78	62	29.92	99	54.106	499	37.87	40
27	59.920	328	2.53	169	29.480	320	40.43	83	53.40	60	30.91	163	54.605	495	37.47	9
Nov. 6	60.248	315	4.22	220	29.800	312	39.60	83	54.00	56	32.54	222	55.100	481	37.38	22
16	60.563	201	6.42	261	30.112	298	38.77	78	54.56	49	34.76	275	55.581	456	37.60	54
26	60.854	259	9.03	295	30.410	277	37.99	70	55.05	41	37.51	319	56.037	419	38.14	86
Dez. 6	61.113	219	11.98	319	30.687	246	37.29	60	55.46	32	40.70	350	56.456	369	39.00	116
16	61.332	171	15.17	332	30.933	208	36.69	46	55.78	21	44.20	372	56.825	307	40.16	143
26	61.503	117	18.49	334	31.141	162	36.23	31	55.99	10	47.92	381	57.132	235	41.59	167
36	61.620		21.83		31.303		35.92		56.09		51.73		57.367		43.26	
Mittl. Ort	57.128		6.75		25.365		53.56		52.16		38.12		49.010		61.49	
sec δ, tg δ	1.252		−0.753		1.079		+0.406		2.652		−2.456		1.761		+1.450	
a, *a′*	+2.1		−6.4		+3.6		−6.6		0.0		−6.6		+4.9		−6.7	
b, *b′*	+0.02		−0.95		−0.01		−0.94		+0.05		−0.94		−0.03		−0.94	

Scheinbare Sternörter 1938

Tag	282) ι Geminorum AR.		Dekl.		285) β Canis min. AR.		Dekl.		284) Grb 1308 AR.		Dekl.		286) ρ Geminorum AR.		Dekl.	
1938	7h 21m		+27° 55′		7h 23m		+8° 24′		7h 24m		+68° 35′		7h 25m		+31° 54′	
	s		″		s		″		s		″		s		″	
Jan. 1	55.412	147	13.39	11	49.773	130	48.14	111	32.24	27	31.27	238	10.353	155	24.82	36
11	55.559	91	13.50	26	49.903	80	47.03	96	32.51	13	33.65	249	10.508	98	25.18	51
20	[11] 55.650	34	13.76	39	[12] 49.983	29	46.07	79	[12] 32.64	2	36.14	251	[12] 10.606	38	25.69	63
30	55.684	22	14.15	48	50.012	20	45.28	62	32.66	12	38.65	243	10.644	19	26.32	71
Febr. 9	55.662	73	14.63	52	49.992	67	44.66	46	32.54	23	41.08	225	10.625	73	27.03	74
19	55.589	119	15.15	53	49.925	106	44.20	31	32.31	34	43.33	197	10.552	121	27.77	71
März 1	55.470	154	15.68	50	49.819	138	43.89	17	31.97	41	45.30	162	10.431	158	28.48	65
11	55.316	179	16.18	42	49.681	160	43.72	5	31.56	48	46.92	120	10.273	185	29.13	55
21	55.137	193	16.60	33	49.521	173	43.67	4	31.08	52	48.12	72	10.088	201	29.68	41
31	54.944	195	16.93	22	49.348	174	43.71	14	30.56	53	48.84	24	9.887	203	30.09	26
Apr. 10	54.749	187	17.15	10	49.174	166	43.85	21	30.03	51	49.08	25	9.684	195	30.35	9
20	54.562	168	17.25	3	49.008	150	44.06	28	29.52	48	48.83	73	9.489	176	30.44	7
30	54.394	140	17.22	15	48.858	127	44.34	36	29.04	42	48.10	118	9.313	149	30.37	22
Mai 10	54.254	108	17.07	24	48.731	98	44.70	42	28.62	35	46.92	157	9.164	116	30.15	36
20	54.146	71	16.83	32	48.633	65	45.12	48	28.27	27	45.35	190	9.048	77	29.79	48
30	54.075	31	16.51	39	48.568	29	45.60	54	28.00	17	43.45	219	8.971	36	29.31	57
Juni 9	54.044	10	16.12	45	48.539	6	46.14	58	27.83	8	41.26	241	8.935	7	28.74	65
19	54.054	52	15.67	48	48.545	42	46.72	61	27.75	2	38.85	255	8.942	49	28.09	70
29	54.106	90	15.19	51	48.587	76	47.33	62	27.77	13	36.30	263	8.991	90	27.39	74
Juli 9	54.196	127	14.68	54	48.663	109	47.95	60	27.90	22	33.67	265	9.081	129	26.65	78
19	54.323	162	14.14	55	48.772	140	48.55	57	28.12	30	31.02	262	9.210	164	25.87	79
29	54.485	193	13.59	58	48.912	168	49.12	49	28.42	39	28.40	252	9.374	197	25.08	80
Aug. 8	54.678	221	13.01	61	49.080	193	49.61	38	28.81	47	25.88	238	9.571	227	24.28	82
18	54.899	247	12.40	64	49.273	217	49.99	25	29.28	53	23.50	219	9.798	254	23.46	83
28	55.146	269	11.76	67	49.490	237	50.24	7	29.81	60	21.31	196	10.052	277	22.63	84
Sept. 7	55.415	288	11.09	71	49.727	256	50.31	12	30.41	65	19.35	170	10.329	298	21.79	84
17	55.703	306	10.38	75	49.983	271	50.19	33	31.06	69	17.65	140	10.627	317	20.95	85
27	56.009	319	9.63	78	50.254	284	49.86	56	31.75	72	16.25	106	10.944	331	20.10	84
Okt. 7	56.328	329	8.85	79	50.538	294	49.30	77	32.47	74	15.19	71	11.275	341	19.26	81
17	56.657	335	8.06	78	50.832	299	48.53	97	33.21	74	14.48	32	11.616	348	18.45	76
27	56.992	335	7.28	75	51.131	300	47.56	114	33.95	74	14.16	9	11.964	349	17.69	69
Nov. 6	57.327	328	6.53	69	51.431	294	46.42	127	34.69	72	14.25	50	12.313	343	17.00	58
16	57.655	315	5.84	58	51.725	282	45.15	135	35.41	68	14.75	92	12.656	328	16.42	45
26	57.970	293	5.26	46	52.007	262	43.80	139	36.09	62	15.67	132	12.984	306	15.97	29
Dez. 6	58.263	262	4.80	31	52.269	234	42.41	136	36.71	54	16.99	168	13.290	275	15.68	11
16	58.525	222	4.49	15	52.503	198	41.05	130	37.25	45	18.67	201	13.565	234	15.57	8
26	58.747	174	4.34	3	52.701	156	39.75	118	37.70	33	20.68	227	13.799	185	15.65	27
36	58.921		4.37		52.857		38.57		38.03		22.95		13.984		15.92	
Mittl. Ort	52.758		22.96		47.397		56.63		26.86		42.22		7.618		34.79	
sec δ, tg δ	1.132		+0.530		1.011		+0.148		2.740		+2.551		1.178		+0.623	
a, *a′*	+3.7		−7.0		+3.3		−7.2		+6.3		−7.2		+3.8		−7.3	
b, *b′*	−0.01		−0.94		0.00		−0.93		−0.06		−0.93		−0.02		−0.93	

Tag	287) α Geminorum[1]				289) 25 Monocerotis				291) α Canis min.[2]				292) 24 Lyncis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$7^h\ 30^m$		+32° 1′		$7^h\ 34^m$		−3° 58′		$7^h\ 36^m$		+5° 22′		$7^h\ 37^m$		+58° 51′	
	s		″		s		″		s		″		s		″	
Jan. 1	41.497	160	25.97	34	14.063	130	23.99	187	5.851	134	57.89	135	50.334	236	15.47	186
11	[13] 41.657	104	26.31	50	[14] 14.193	82	25.86	173	[15] 5.985	85	56.54	120	[15] 50.570	146	17.33	201
20	41.761	44	26.81	63	14.275	31	27.59	153	6.070	35	55.34	102	50.716	52	19.34	210
30	41.805	15	27.44	71	14.306	18	29.12	132	6.105	15	54.32	82	50.768	40	21.44	209
Febr. 9	41.790	69	28.15	75	14.288	63	30.44	110	6.090	62	53.50	64	50.728	127	23.53	199
19	41.721	117	28.90	74	14.225	104	31.54	86	6.028	102	52.86	46	50.601	204	25.52	180
März 1	41.604	155	29.64	68	14.121	135	32.40	62	5.926	134	52.40	29	50.397	268	27.32	153
11	41.449	183	30.32	57	13.986	158	33.02	41	5.792	157	52.11	15	50.129	315	28.85	120
21	41.266	200	30.89	44	13.828	171	33.43	18	5.635	171	51.96	1	49.814	345	30.05	83
31	41.066	204	31.33	29	13.657	175	33.61	3	5.464	174	51.95	10	49.469	357	30.88	41
Apr. 10	40.862	196	31.62	12	13.482	169	33.58	22	5.290	167	52.05	21	49.112	350	31.29	0
20	40.666	179	31.74	5	13.313	155	33.36	42	5.123	153	52.26	31	48.762	327	31.29	41
30	40.487	152	31.69	20	13.158	134	32.94	59	4.970	131	52.57	40	48.435	290	30.88	80
Mai 10	40.335	120	31.49	34	13.024	107	32.35	76	4.839	103	52.97	48	48.145	241	30.08	116
20	40.215	82	31.15	47	12.917	77	31.59	92	4.736	72	53.45	56	47.904	183	28.92	147
30	40.133	41	30.68	57	12.840	43	30.67	104	4.664	39	54.01	63	47.721	119	27.45	174
Juni 9	40.092	0	30.11	66	12.797	10	29.63	115	4.625	3	54.64	69	47.602	52	25.71	195
19	40.092	42	29.45	72	12.787	25	28.48	123	4.622	32	55.33	71	47.550	17	23.76	211
29	40.134	83	28.73	76	12.812	58	27.25	128	4.654	65	56.04	73	47.567	85	21.65	221
Juli 9	40.217	122	27.97	80	12.870	91	25.97	127	4.719	98	56.77	71	47.652	151	19.44	225
19	40.339	158	27.17	83	12.961	122	24.70	122	4.817	128	57.48	66	47.803	213	17.19	227
29	40.497	191	26.34	85	13.083	150	23.48	113	4.945	157	58.14	58	48.016	271	14.92	222
Aug. 8	40.688	221	25.49	86	13.233	177	22.35	99	5.102	182	58.72	47	48.287	325	12.70	215
18	40.909	249	24.63	88	13.410	201	21.36	79	5.284	206	59.19	30	48.612	373	10.55	202
28	41.158	272	23.75	89	13.611	224	20.57	54	5.490	228	59.49	11	48.985	417	8.53	187
Sept. 7	41.430	295	22.86	90	13.835	243	20.03	26	5.718	247	59.60	10	49.402	454	6.66	169
17	41.725	313	21.96	91	14.078	261	19.77	5	5.965	263	59.50	34	49.856	486	4.97	147
27	42.038	328	21.05	89	14.339	276	19.82	38	6.228	278	59.16	59	50.342	512	3.50	122
Okt. 7	42.366	341	20.16	87	14.615	287	20.20	72	6.506	289	58.57	84	50.854	532	2.28	93
17	42.707	348	19.29	82	14.902	294	20.92	105	6.795	296	57.73	107	51.386	542	1.35	63
27	43.055	349	18.47	74	15.196	295	21.97	134	7.091	298	56.66	127	51.928	543	0.72	30
Nov. 6	43.404	345	17.73	64	15.491	291	23.31	160	7.389	293	55.39	143	52.471	533	0.42	5
16	43.749	332	17.09	50	15.782	279	24.91	179	7.682	282	53.96	153	53.004	511	0.47	42
26	44.081	309	16.59	33	16.061	260	26.70	192	7.964	263	52.43	159	53.515	475	0.89	78
Dez. 6	44.390	279	16.26	14	16.321	233	28.62	199	8.227	236	50.84	159	53.990	424	1.67	114
16	44.669	239	16.12	4	16.554	197	30.61	199	8.463	201	49.25	153	54.414	360	2.81	146
26	44.908	190	16.16	24	16.751	156	32.60	193	8.664	160	47.72	143	54.774	285	4.27	173
36	45.098		16.40		16.907		34.53		8.824		46.29		55.059		6.00	
Mittl. Ort	38.774		36.31		11.774		16.26		3.513		66.59		46.368		27.55	
sec δ, tg δ	1.180		+0.626		1.002		−0.069		1.004		+0.094		1.934		+1.655	
a, *a′*	+3.8		−7.7		+3.0		−8.0		+3.2		−8.2		+5.1		−8.3	
b, *b′*	−0.02		−0.92		0.00		−0.92		0.00		−0.91		−0.05		−0.91	

[1]) AR. der Mitte; Dekl. des folgenden, helleren Sterns.

[2]) Ort des hellen Sterns; die jährliche Parallaxe (0″.312) ist bereits berücksichtigt.

Scheinbare Sternörter 1938

Tag		294) ϰ Geminorum AR.		294) ϰ Geminorum Dekl.		295) β Geminorum[1] AR.		295) β Geminorum[1] Dekl.	
1938		$7^h\ 40^m$		$+24°\ 32'$		$7^h\ 41^m$		$+28°\ 10'$	
Jan.	1	45.027	162	43.40	17	34.141	165	28.46	6
	11	45.189	109	43.23	1	34.306	110	28.52	24
	20	^{16}45.298	53	43.24	17	^{16}34.416	53	28.76	39
	30	45.351	2	43.41	29	34.469	4	29.15	51
Febr.	9	45.349	54	43.70	39	34.465	58	29.66	58
	19	45.295	100	44.09	44	34.407	104	30.24	61
März	1	45.195	137	44.53	46	34.303	143	30.85	59
	11	45.058	164	44.99	43	34.160	172	31.44	53
	21	44.894	181	45.42	37	33.988	189	31.97	45
	31	44.713	187	45.79	30	33.799	194	32.42	33
Apr.	10	44.526	181	46.09	22	33.605	189	32.75	21
	20	44.345	166	46.31	11	33.416	174	32.96	7
	30	44.179	144	46.42	3	33.242	151	33.03	6
Mai	10	44.035	115	46.45	6	33.091	120	32.97	17
	20	43.920	81	46.39	14	32.971	85	32.80	28
	30	43.839	44	46.25	20	32.886	48	32.52	37
Juni	9	43.795	6	46.05	25	32.838	8	32.15	44
	19	43.789	32	45.80	31	32.830	31	31.71	51
	29	43.821	70	45.49	34	32.861	70	31.20	56
Juli	9	43.891	105	45.15	38	32.931	107	30.64	60
	19	43.996	138	44.77	43	33.038	142	30.04	65
	29	44.134	169	44.34	48	33.180	174	29.39	69
Aug.	8	44.303	198	43.86	53	33.354	202	28.70	72
	18	44.501	224	43.33	59	33.556	230	27.98	77
	28	44.725	248	42.74	66	33.786	255	27.21	82
Sept.	7	44.973	269	42.08	74	34.041	276	26.39	86
	17	45.242	288	41.34	81	34.317	295	25.53	90
	27	45.530	304	40.53	87	34.612	313	24.63	94
Okt.	7	45.834	318	39.66	93	34.925	326	23.69	95
	17	46.152	326	38.73	96	35.251	334	22.74	94
	27	46.478	330	37.77	96	35.585	338	21.80	91
Nov.	6	46.808	327	36.81	93	35.923	335	20.89	83
	16	47.135	317	35.88	86	36.258	324	20.06	73
	26	47.452	298	35.02	75	36.582	305	19.33	58
Dez.	6	47.750	270	34.27	60	36.887	276	18.75	42
	16	48.020	234	33.67	44	37.163	239	18.33	24
	26	48.254	190	33.23	26	37.402	194	18.09	3
	36	48.444		32.97		37.596		18.06	
Mittl. Ort		42.484		53.81		31.532		39.19	
sec δ, tg δ		1.099		+0.457		1.134		+0.536	
a, *a′*		+3.6		−8.5		+3.7		−8.6	
b, *b′*		−0.01		−0.90		−0.02		−0.90	

Tag		297) ζ Volantis AR.		297) ζ Volantis Dekl.		296) π Geminorum AR.		296) π Geminorum Dekl.	
1938		$7^h\ 42^m$		$-72°\ 27'$		$7^h\ 43^m$		$+33°\ 33'$	
Jan.	1	40.00	9	28.91	385	33.546	177	59.10	39
	11	40.09	5	32.76	382	33.723	120	59.49	56
	20	^{16}40.04	19	36.58	370	^{17}33.843	59	60.05	72
	30	39.85	32	40.28	348	33.902	0	60.77	82
Febr.	9	39.53	44	43.76	317	33.902	58	61.59	86
	19	39.09	54	46.93	280	33.844	107	62.45	85
März	1	38.55	63	49.73	237	33.737	149	63.30	80
	11	37.92	69	52.10	190	33.588	180	64.10	70
	21	37.23	73	54.00	139	33.408	199	64.80	55
	31	36.50	75	55.39	86	33.209	205	65.35	38
Apr.	10	35.75	75	56.25	33	33.004	200	65.73	21
	20	35.00	74	56.58	21	32.804	186	65.94	2
	30	34.26	69	56.37	73	32.618	161	65.96	17
Mai	10	33.57	65	55.64	123	32.457	130	65.79	33
	20	32.92	57	54.41	170	32.327	94	65.46	47
	30	32.35	49	52.71	213	32.233	54	64.99	61
Juni	9	31.86	40	50.58	250	32.179	12	64.38	71
	19	31.46	28	48.08	280	32.167	29	63.67	80
	29	31.18	18	45.28	302	32.196	70	62.87	87
Juli	9	31.00	6	42.26	316	32.266	108	62.00	92
	19	30.94	6	39.10	320	32.374	146	61.08	96
	29	31.00	18	35.90	314	32.520	181	60.12	99
Aug.	8	31.18	31	32.76	297	32.701	212	59.13	102
	18	31.49	41	29.79	270	32.913	240	58.11	103
	28	31.90	52	27.09	232	33.153	266	57.08	105
Sept.	7	32.42	60	24.77	186	33.419	291	56.03	105
	17	33.02	68	22.91	132	33.710	311	54.98	105
	27	33.70	74	21.59	71	34.021	329	53.93	103
Okt.	7	34.44	77	20.88	5	34.350	344	52.90	99
	17	35.21	77	20.83	61	34.694	353	51.91	93
	27	35.98	76	21.44	127	35.047	357	50.98	83
Nov.	6	36.74	71	22.71	190	35.404	355	50.15	71
	16	37.45	65	24.61	246	35.759	344	49.44	55
	26	38.10	55	27.07	295	36.103	324	48.89	36
Dez.	6	38.65	45	30.02	334	36.427	294	48.53	16
	16	39.10	31	33.36	362	36.721	255	48.37	5
	26	39.41	18	36.98	378	36.976	207	48.42	29
	36	39.59		40.76		37.183		48.71	
Mittl. Ort		35.49		27.19		30.826		70.36	
sec δ, tg δ		3.318		−3.163		1.200		+0.664	
a, *a′*		−0.7		−8.7		+3.9		−8.7	
b, *b′*		+0.09		−0.90		−0.02		−0.90	

¹) Die jährliche Parallaxe (0.″101) ist bereits berücksichtigt.

Tag	300) Grb 1374				303) χ Argus				305) χ Geminorum				306) ζ Argus			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$7^h\ 52^m$		+74° 4′		$7^h\ 55^m$		−52° 48′		$7^h\ 59^m$		+27° 57′		$8^h\ 1^m$		−39° 49′	
Jan. 1	$55^s.33$	41	58″.24	246	$15^s.019$	131	57″.22	376	$45^s.410$	186	59″.17	3	$26^s.687$	142	42″.89	348
11	55.74	26	60.70	266	[20] 15.150	56	60.98	372	45.596	132	59.14	17	26.829	82	46.37	342
20*)	[19] 56.00	8	63.36	274	15.206	18	64.70	359	[21] 45.728	75	59.31	35	[21] 26.911	20	49.79	328
30	56.08	8	66.10	272	15.188	91	68.29	336	45.803	18	59.66	50	26.931	39	53.07	304
Febr. 9	56.00	24	68.82	258	15.097	157	71.65	306	45.821	38	60.16	60	26.892	95	56.11	276
19	55.76	39	71.40	233	14.940	215	74.71	269	45.783	86	60.76	65	26.797	144	58.87	240
März 1	55.37	52	73.73	200	14.725	263	77.40	226	45.697	128	61.41	66	26.653	185	61.27	200
11	54.85	61	75.73	159	14.462	300	79.66	180	45.569	158	62.07	62	26.468	216	63.27	158
21	54.24	67	77.32	110	14.162	325	81.46	131	45.411	180	62.69	54	26.252	237	64.85	113
31	53.57	71	78.42	59	13.837	336	82.77	81	45.231	188	63.23	44	26.015	247	65.98	67
Apr. 10	52.86	71	79.01	7	13.501	337	83.58	29	45.043	187	63.67	32	25.768	247	66.65	21
20	52.15	69	79.08	46	13.164	326	83.87	22	44.856	176	63.99	18	25.521	238	66.86	25
30	51.46	62	78.62	97	12.838	306	83.65	72	44.680	155	64.17	4	25.283	221	66.61	69
Mai 10	50.84	55	77.65	143	12.532	277	82.93	119	44.525	129	64.21	8	25.062	196	65.92	111
20	50.29	45	76.22	184	12.255	240	81.74	164	44.396	97	64.13	20	24.866	166	64.81	151
30	49.84	34	74.38	219	12.015	197	80.10	204	44.299	61	63.93	31	24.700	132	63.30	187
Juni 9	49.50	22	72.19	248	11.818	150	78.06	239	44.238	24	63.62	41	24.568	95	61.43	217
19	49.28	10	69.71	270	11.668	99	75.67	267	44.214	13	63.21	49	24.473	54	59.26	241
29	49.18	4	67.01	284	11.569	44	73.00	288	44.227	51	62.72	56	24.419	13	56.85	260
Juli 9	49.22	16	64.17	292	11.525	10	70.12	301	44.278	88	62.16	62	24.406	30	54.25	270
19	49.38	28	61.25	294	11.535	67	67.11	304	44.366	122	61.54	69	24.436	72	51.55	272
29	49.66	41	58.31	289	11.602	123	64.07	297	44.488	154	60.85	74	24.508	113	48.83	264
Aug. 8	50.07	51	55.42	279	11.725	178	61.10	281	44.642	184	60.11	81	24.621	155	46.19	249
18	50.58	61	52.63	263	11.903	229	58.29	254	44.826	212	59.30	86	24.776	194	43.70	224
28	51.19	70	50.00	241	12.132	279	55.75	218	45.038	239	58.44	92	24.970	230	41.46	189
Sept. 7	51.89	78	47.59	215	12.411	322	53.57	173	45.277	264	57.52	98	25.200	264	39.57	147
17	52.67	86	45.44	185	12.733	361	51.84	119	45.541	285	56.54	104	25.464	294	38.10	97
27	53.53	90	43.59	150	13.094	391	50.65	61	45.826	305	55.50	107	25.758	320	37.13	43
Okt. 7	54.43	95	42.09	112	13.485	412	50.04	2	46.131	321	54.43	110	26.078	338	36.70	16
17	55.38	96	40.97	69	13.897	424	50.06	67	46.452	334	53.33	110	26.416	351	36.86	75
27	56.34	97	40.28	25	14.321	424	50.73	131	46.786	341	52.23	106	26.767	355	37.61	134
Nov. 6	57.31	96	40.03	22	14.745	412	52.04	191	47.127	341	51.17	99	27.122	348	38.95	188
16	58.27	91	40.25	68	15.157	387	53.95	246	47.468	334	50.18	88	27.470	334	40.83	237
26	59.18	85	40.93	115	15.544	350	56.41	292	47.802	317	49.30	74	27.804	308	43.20	279
Dez. 6	60.03	76	42.08	159	15.894	301	59.33	329	48.119	292	48.56	55	28.112	272	45.99	310
16	60.79	64	43.67	199	16.195	241	62.62	355	48.411	258	48.01	35	28.384	228	49.09	333
26	61.43	50	45.66	232	16.436	174	66.17	370	48.669	213	47.66	14	28.612	175	52.42	344
36	61.93		47.98		16.610		69.87		48.882		47.52		28.787		55.86	
Mittl. Ort	48.82		72.02		12.215		54.81		42.865		70.89		24.229		39.42	
sec δ, tg δ	3.647		+3.507		1.655		−1.318		1.132		+0.531		1.302		−0.834	
a, *a′*	+7.2		−9.5		+1.5		−9.7		+3.7		−10.0		+2.1		−10.1	
b, *b′*	−0.11		−0.88		+0.04		−0.88		−0.02		−0.87		+0.03		−0.86	

*) Bei Stern 305) und 306) lies Jan. 21.

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Tag	307) 27 Lyncis				308) ι Navis				309) γ Argus				311) 20 Navis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$8^h\ 3^m$		$+51°40'$		$8^h\ 4^m$		$-24°7'$		$8^h\ 7^m$		$-47°9'$		$8^h\ 10^m$		$-15°36'$	
	s		″		s		″		s		″		s		″	
Jan. 1	51.523	246	60.23	135	56.458	150	33.58	293	39.883	150	13.83	366	31.237	159	7.55	256
11	51.769	172	61.58	157	56.608	98	36.51	284	40.033	84	17.49	363	31.396	110	10.11	245
21	[22] 51.941	94	63.15	173	[22] 56.706	45	39.35	267	40.117	16	21.12	351	31.506	58	12.56	227
30	52.035	14	64.88	181	56.751	8	42.02	244	[23] 40.133	50	24.63	330	[23] 31.564	8	14.83	205
Febr. 9	52.049	62	66.69	180	56.743	58	44.46	217	40.083	112	27.93	301	31.572	41	16.88	179
19	51.987	131	68.49	171	56.685	102	46.63	185	39.971	167	30.94	266	31.531	85	18.67	150
März 1	51.856	190	70.20	155	56.583	138	48.48	151	39.804	212	33.60	226	31.446	121	20.17	120
11	51.666	236	71.75	131	56.445	167	49.99	115	39.592	247	35.86	182	31.325	148	21.37	90
21	51.430	268	73.06	102	56.278	185	51.14	78	39.345	272	37.68	135	31.177	168	22.27	59
31	51.162	283	74.08	68	56.093	193	51.92	42	39.073	285	39.03	87	31.009	176	22.86	28
Apr. 10	50.879	284	74.76	33	55.900	194	52.34	5	38.788	287	39.90	37	30.833	176	23.14	1
20	50.595	271	75.09	3	55.706	185	52.39	31	38.501	279	40.27	11	30.657	169	23.13	31
30	50.324	246	75.06	39	55.521	168	52.08	65	38.222	263	40.16	60	30.488	154	22.82	58
Mai 10	50.078	211	74.67	72	55.353	147	51.43	97	37.959	238	39.56	106	30.334	132	22.24	84
20	49.867	167	73.95	102	55.206	120	50.46	128	37.721	207	38.50	149	30.202	107	21.40	108
30	49.700	118	72.93	129	55.086	90	49.18	155	37.514	171	37.01	188	30.095	79	20.32	130
Juni 9	49.582	66	71.64	152	54.996	57	47.63	177	37.343	130	35.13	223	30.016	48	19.02	148
19	49.516	11	70.12	171	54.939	23	45.86	196	37.213	86	32.90	251	29.968	15	17.54	162
29	49.505	43	68.41	184	54.916	11	43.90	209	37.127	39	30.39	272	29.953	17	15.92	171
Juli 9	49.548	97	66.57	195	54.927	46	41.81	214	37.088	8	27.67	285	29.970	49	14.21	176
19	49.645	147	64.62	201	54.973	81	39.67	214	37.096	57	24.82	290	30.019	81	12.45	174
29	49.792	196	62.61	203	55.054	113	37.53	206	37.153	106	21.92	285	30.100	112	10.71	166
Aug. 8	49.988	242	60.58	202	55.167	146	35.47	191	37.259	153	19.07	271	30.212	141	9.05	151
18	50.230	284	58.56	198	55.313	177	33.56	167	37.412	199	16.36	246	30.353	170	7.54	130
28	50.514	322	56.58	190	55.490	206	31.89	137	37.611	242	13.90	212	30.523	198	6.24	103
Sept. 7	50.836	358	54.68	180	55.696	234	30.52	100	37.853	283	11.78	170	30.721	223	5.21	70
17	51.194	390	52.88	165	55.930	258	29.52	57	38.136	319	10.08	119	30.944	247	4.51	33
27	51.584	417	51.23	149	56.188	279	28.95	10	38.455	349	8.89	62	31.191	267	4.18	9
Okt. 7	52.001	439	49.74	128	56.467	297	28.85	39	38.804	371	8.27	2	31.458	285	4.27	52
17	52.440	455	48.46	104	56.764	309	29.24	88	39.175	386	8.25	60	31.743	298	4.79	95
27	52.895	465	47.42	78	57.073	315	30.12	137	39.561	391	8.85	123	32.041	306	5.74	136
Nov. 6	53.360	463	46.64	47	57.388	313	31.49	181	39.952	384	10.08	182	32.347	306	7.10	173
16	53.823	453	46.17	14	57.701	303	33.30	220	40.336	366	11.90	235	32.653	298	8.83	205
26	54.276	429	46.03	20	58.004	285	35.50	251	40.702	337	14.25	281	32.951	283	10.88	230
Dez. 6	54.705	394	46.23	55	58.289	257	38.01	274	41.039	297	17.06	318	33.234	258	13.18	247
16	55.099	345	46.78	89	58.546	221	40.75	287	41.336	246	20.24	344	33.492	226	15.65	256
26	55.444	285	47.67	119	58.767	178	43.62	293	41.582	188	23.68	359	33.718	185	18.21	257
36	55.729		48.86		58.945		46.55		41.770		27.27		33.903		20.78	
Mittl. Ort	48.227		74.20		54.183		28.27		37.271		11.45		29.009		1.14	
sec δ, tg δ	1.613		+1.266		1.096		−0.448		1.471		−1.078		1.038		−0.279	
a, *a′*	+4.5		−10.3		+2.6		−10.4		+1.9		−10.6		+2.8		−10.8	
b, *b′*	−0.04		− 0.86		+0.02		− 0.86		+0.04		− 0.85		+0.01		− 0.84	

Tag	310) Br 1147 AR.	Δ	Dekl.	Δ	312) β Cancri AR.	Δ	Dekl.	Δ	314) 31 Lyncis AR.	Δ	Dekl.	Δ	315) ε Argus AR.	Δ	Dekl.	Δ
1938	$8^h\ 11^m$		$+75°\ 56'$		$8^h\ 13^m$		$+9°\ 22'$		$8^h\ 18^m$		$+43°\ 22'$		$8^h\ 21^m$		$-59°\ 18'$	
	s		"		s		"		s		"		s		"	
Jan. 1	55.19	52	41.76	242	11.575	177	30.52	121	38.799	238	64.33	80	17.742	183	34.13	382
11	55.71	35	44.18	265	11.752	130	29.31	103	39.037	175	65.13	105	17.925	96	37.95	385
21	(24) 56.06	16	46.83	280	(24) 11.882	78	28.28	84	(26) 39.212	107	66.18	124	(26) 18.021	10	41.80	379
30	56.22	3	49.63	282	11.960	26	27.44	64	39.319	39	67.42	138	18.031	74	45.59	362
Febr. 9	56.19	22	52.45	272	11.986	23	26.80	44	39.358	29	68.80	145	17.957	154	49.21	337
19	55.97	39	55.17	252	11.963	68	26.36	27	39.329	90	70.25	144	17.803	225	52.58	305
März 1	55.58	53	57.69	221	11.895	105	26.09	11	39.239	142	71.69	135	17.578	285	55.63	266
11	55.05	65	59.90	181	11.790	134	25.98	1	39.097	184	73.04	120	17.293	334	58.29	222
21	54.40	74	61.71	135	11.656	154	25.99	12	38.913	214	74.24	100	16.959	369	60.51	175
31	53.66	79	63.06	84	11.502	164	26.11	21	38.699	230	75.24	76	16.590	390	62.26	124
Apr. 10	52.87	81	63.90	30	11.338	164	26.32	27	38.469	234	76.00	48	16.200	400	63.50	73
20	52.06	79	64.20	24	11.174	156	26.59	33	38.235	225	76.48	19	15.800	396	64.23	20
30	51.27	74	63.96	76	11.018	140	26.92	37	38.010	206	76.67	10	15.404	381	64.43	32
Mai 10	50.53	67	63.20	126	10.878	118	27.29	41	37.804	178	76.57	37	15.023	356	64.11	84
20	49.86	57	61.94	171	10.760	93	27.70	44	37.626	144	76.20	64	14.667	322	63.27	132
30	49.29	45	60.23	210	10.667	63	28.14	46	37.482	104	75.56	88	14.345	280	61.95	177
Juni 9	48.84	33	58.13	242	10.604	31	28.60	48	37.378	61	74.68	108	14.065	230	60.18	217
19	48.51	19	55.71	269	10.573	0	29.08	48	37.317	17	73.60	126	13.835	175	58.01	251
29	48.32	5	53.02	288	10.573	33	29.56	47	37.300	28	72.34	141	13.660	116	55.50	278
Juli 9	48.27	10	50.14	301	10.606	64	30.03	43	37.328	72	70.93	152	13.544	52	52.72	298
19	48.37	23	47.13	305	10.670	94	30.46	38	37.400	114	69.41	161	13.492	15	49.74	307
29	48.60	37	44.08	305	10.764	123	30.84	30	37.514	155	67.80	167	13.507	81	46.67	308
Aug. 8	48.97	50	41.03	298	10.887	151	31.14	18	37.669	194	66.13	171	13.588	149	43.59	298
18	49.47	62	38.05	284	11.038	177	31.32	4	37.863	230	64.42	172	13.737	215	40.61	277
28	50.09	72	35.21	266	11.215	202	31.36	12	38.093	264	62.70	171	13.952	279	37.84	246
Sept. 7	50.81	82	32.55	241	11.417	225	31.24	32	38.357	296	60.99	168	14.231	338	35.38	205
17	51.63	91	30.14	212	11.642	248	30.92	52	38.653	325	59.31	162	14.569	390	33.33	156
27	52.54	98	28.02	178	11.890	268	30.40	74	38.978	351	57.69	153	14.959	433	31.77	99
Okt. 7	53.52	103	26.24	139	12.158	285	29.66	95	39.329	374	56.16	142	15.392	467	30.78	37
17	54.55	107	24.85	97	12.443	298	28.71	114	39.703	392	54.74	125	15.859	489	30.41	29
27	55.62	109	23.88	52	12.741	308	27.57	131	40.095	403	53.49	107	16.348	496	30.70	94
Nov. 6	56.71	108	23.36	3	13.049	310	26.26	143	40.498	408	52.42	84	16.844	488	31.64	159
16	57.79	104	23.33	46	13.359	305	24.83	151	40.906	402	51.58	57	17.332	465	33.23	218
26	58.83	98	23.79	96	13.664	292	23.32	154	41.308	385	51.01	29	17.797	427	35.41	271
Dez. 6	59.81	89	24.75	143	13.956	271	21.78	150	41.693	358	50.72	3	18.224	374	38.12	315
16	60.70	77	26.18	187	14.227	241	20.28	142	42.051	320	50.75	34	18.598	308	41.27	348
26	61.47	62	28.05	225	14.468	202	18.86	129	42.371	270	51.09	64	18.906	231	44.75	371
36	62.09		30.30		14.670		17.57		42.641		51.73		19.137		48.46	
Mittl. Ort	48.29		57.34		9.297		40.54		35.949		78.73		14.658		33.78	
sec δ, tg δ	4.119		+3.996		1.014		+0.165		1.376		+0.945		1.959		−1.685	
a, *a′*	+7.6		−10.9		+3.3		−11.0		+4.1		−11.4		+1.2		−11.6	
b, *b′*	−0.14		− 0.84		−0.01		− 0.84		−0.04		− 0.82		+0.06		− 0.82	

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Tag	318) ϑ Chamael. AR.		318) ϑ Chamael. Dekl.		316) Br 1197 AR.		316) Br 1197 Dekl.		317) o Ursae maj. AR.		317) o Ursae maj. Dekl.		320) Grb 1450 AR.		320) Grb 1450 Dekl.	
1938	8h 22m		−77° 17′		8h 22m		−3° 42′		8h 25m		+60° 55′		8h 28m		+38° 13′	
	s		"		s		"		s		"		s		"	
Jan. 1	37.70	27	5.57	377	36.024	176	18.71	198	11.65	33	22.33	168	56.196	235	35.51	44
11	37.97	8	9.34	387	36.200	129	20.69	183	11.98	24	24.01	196	56.431	178	35.95	70
21	38.05	11	13.21	384	36.329	79	22.52	165	12.22	14	25.97	216	56.609	115	36.65	93
30	[27] 37.94	29	17.05	373	[27] 36.408	29	24.17	143	[27] 12.36	4	28.13	226	[28] 56.724	51	37.58	109
Febr. 9	37.65	46	20.78	352	36.437	20	25.60	120	12.40	5	30.39	226	56.775	12	38.67	119
19	37.19	61	24.30	323	36.417	64	26.80	96	12.35	15	32.65	217	56.763	70	39.86	123
März 1	36.58	75	27.53	288	36.353	101	27.76	72	12.20	22	34.82	198	56.693	120	41.09	121
11	35.83	85	30.41	247	36.252	130	28.48	49	11.98	29	36.80	171	56.573	160	42.30	111
21	34.98	93	32.88	201	36.122	151	28.97	28	11.69	33	38.51	136	56.413	189	43.41	96
31	34.05	98	34.89	151	35.971	161	29.25	6	11.36	36	39.87	97	56.224	206	44.37	77
Apr. 10	33.07	101	36.40	100	35.810	163	29.31	12	11.00	38	40.84	54	56.018	211	45.14	55
20	32.06	102	37.40	46	35.647	157	29.19	31	10.62	37	41.38	10	55.807	205	45.69	31
30	31.04	100	37.86	7	35.490	143	28.88	48	10.25	34	41.48	33	55.602	189	46.00	7
Mai 10	30.04	95	37.79	60	35.347	124	28.40	64	9.91	31	41.15	76	55.413	165	46.07	18
20	29.09	89	37.19	111	35.223	100	27.76	78	9.60	26	40.39	114	55.248	135	45.89	40
30	28.20	79	36.08	159	35.123	72	26.98	90	9.34	20	39.25	149	55.113	100	45.49	62
Juni 9	27.41	69	34.49	203	35.051	44	26.08	100	9.14	14	37.76	180	55.013	62	44.87	81
19	26.72	57	32.46	241	35.007	14	25.08	108	9.00	7	35.96	205	54.951	22	44.06	98
29	26.15	42	30.05	273	34.993	17	24.00	113	8.93	1	33.91	226	54.929	18	43.08	112
Juli 9	25.73	27	27.32	296	35.010	48	22.87	113	8.92	6	31.65	240	54.947	58	41.96	125
19	25.46	11	24.36	310	35.058	77	21.74	110	8.98	13	29.25	250	55.005	97	40.71	135
29	25.35	6	21.26	315	35.135	106	20.64	102	9.11	19	26.75	255	55.102	133	39.36	142
Aug. 8	25.41	23	18.11	309	35.241	135	19.62	88	9.30	25	24.20	254	55.235	170	37.94	149
18	25.64	39	15.02	293	35.376	161	18.74	71	9.55	31	21.66	250	55.405	203	36.45	154
28	26.03	55	12.09	265	35.537	188	18.03	49	9.86	36	19.16	240	55.608	235	34.91	157
Sept. 7	26.58	70	9.44	227	35.725	213	17.54	23	10.22	42	16.76	226	55.843	266	33.34	158
17	27.28	82	7.17	180	35.938	236	17.31	8	10.64	45	14.50	209	56.109	294	31.76	156
27	28.10	93	5.37	126	36.174	257	17.39	40	11.09	50	12.41	186	56.403	321	30.20	153
Okt. 7	29.03	100	4.11	64	36.431	277	17.79	72	11.59	53	10.55	159	56.724	344	28.67	147
17	30.03	104	3.47	1	36.708	291	18.51	105	12.12	56	8.96	129	57.068	362	27.20	137
27	31.07	105	3.48	68	36.999	301	19.56	136	12.68	57	7.67	94	57.430	376	25.83	123
Nov. 6	32.12	101	4.16	134	37.300	305	20.92	161	13.25	58	6.73	55	57.806	382	24.60	106
16	33.13	95	5.50	195	37.605	301	22.53	183	13.83	56	6.18	14	58.188	380	23.54	83
26	34.08	85	7.45	251	37.906	288	24.36	198	14.39	55	6.04	28	58.568	367	22.71	58
Dez. 6	34.93	72	9.96	298	38.194	268	26.34	206	14.94	50	6.32	72	58.935	343	22.13	31
16	35.65	56	12.94	336	38.462	238	28.40	207	15.44	45	7.04	112	59.278	309	21.82	1
26	36.21	38	16.30	363	38.700	201	30.47	202	15.89	37	8.16	150	59.587	265	21.81	29
36	36.59		19.93		38.901		32.49		16.26		9.66		59.852		22.10	
Mittl. Ort	31.94		6.75		33.826		10.51		7.87		38.56		53.553		50.02	
sec δ, tg δ	4.544		−4.432		1.002		−0.065		2.058		+1.799		1.273		+0.788	
a, *a′*	−1.7		−11.7		+3.0		−11.7		+5.0		−11.9		+3.9		−12.1	
b, *b′*	+0.17		− 0.81		0.00		− 0.81		−0.07		− 0.81		−0.03		− 0.80	

Tag	321) η Cancri AR.		321) η Cancri Dekl.		327) α Pyxidis AR.		327) α Pyxidis Dekl.		326) δ Cancri AR.		326) δ Cancri Dekl.		328) ι Cancri AR.		328) ι Cancri Dekl.	
1938	8h 29m		+20° 38′		8h 41m		−32° 57′		8h 41m		+18° 22′		8h 42m		+28° 58′	
Jan. 1	9.962 s	204	58.94 "	60	8.290 s	189	45.95 "	326	12.166 s	212	47.92 "	79	59.419 s	230	62.81 "	17
11	10.166	155	58.34	38	8.479	137	49.21	325	12.378	165	47.13	57	59.649	179	62.64	8
21	10.321	101	57.96	16	8.616	79	52.46	314	12.543	112	46.56	34	59.828	122	62.72	33
30*)	[28] 10.422	47	57.80	4	[31] 8.695	23	55.60	296	[31] 12.655	58	46.22	12	59.950	65	63.05	54
Febr. 9	10.469	7	57.84	20	8.718	32	58.56	271	12.713	5	46.10	6	[1] 60.015	7	63.59	69
19	10.462	55	58.04	34	8.686	82	61.27	241	12.718	43	46.16	22	60.022	46	64.28	80
März 1	10.407	97	58.38	43	8.604	124	63.68	206	12.675	86	46.38	34	59.976	92	65.08	86
11	10.310	130	58.81	47	8.480	158	65.74	169	12.589	120	46.72	41	59.884	130	65.94	85
21	10.180	154	59.28	49	8.322	184	67.43	130	12.469	144	47.13	45	59.754	158	66.79	80
31	10.026	168	59.77	47	8.138	200	68.73	90	12.325	160	47.58	46	59.596	175	67.59	71
Apr. 10	9.858	170	60.24	42	7.938	206	69.63	47	12.165	165	48.04	44	59.421	182	68.30	58
20	9.688	165	60.66	37	7.732	204	70.10	7	12.000	161	48.48	41	59.239	178	68.88	44
30	9.523	151	61.03	29	7.528	194	70.17	34	11.839	150	48.89	35	59.061	166	69.32	27
Mai 10	9.372	130	61.32	21	7.334	179	69.83	73	11.689	131	49.24	29	58.895	148	69.59	12
20	9.242	105	61.53	13	7.155	157	69.10	111	11.558	108	49.53	22	58.747	122	69.71	5
30	9.137	76	61.66	6	6.998	130	67.99	144	11.450	82	49.75	16	58.625	92	69.66	21
Juni 9	9.061	44	61.72	2	6.868	102	66.55	175	11.368	52	49.91	9	58.533	61	69.45	35
19	9.017	12	61.70	9	6.766	70	64.80	200	11.316	21	50.00	2	58.472	27	69.10	49
29	9.005	22	61.61	16	6.696	35	62.80	220	11.295	11	50.02	5	58.445	7	68.61	60
Juli 9	9.027	53	61.45	24	6.661	0	60.60	233	11.306	41	49.97	12	58.452	42	68.01	73
19	9.080	85	61.21	32	6.661	35	58.27	239	11.347	72	49.85	21	58.494	75	67.28	83
29	9.165	116	60.89	41	6.696	73	55.88	237	11.419	102	49.64	32	58.569	108	66.45	94
Aug. 8	9.281	146	60.48	51	6.769	109	53.51	227	11.521	131	49.32	42	58.677	139	65.51	103
18	9.427	173	59.97	62	6.878	146	51.24	208	11.652	159	48.90	54	58.816	171	64.48	112
28	9.600	200	59.35	73	7.024	182	49.16	180	11.811	187	48.36	67	58.987	200	63.36	121
Sept. 7	9.800	227	58.62	86	7.206	216	47.36	145	11.998	214	47.69	82	59.187	229	62.15	130
17	10.027	251	57.76	99	7.422	249	45.91	102	12.212	239	46.87	96	59.416	256	60.85	136
27	10.278	274	56.77	110	7.671	279	44.89	54	12.451	263	45.91	111	59.672	282	59.49	142
Okt. 7	10.552	294	55.67	121	7.950	304	44.35	1	12.714	285	44.80	124	59.954	306	58.07	145
17	10.846	311	54.46	129	8.254	323	44.34	54	12.999	304	43.56	134	60.260	326	56.62	144
27	11.157	323	53.17	134	8.577	337	44.88	108	13.303	318	42.22	142	60.586	341	55.18	141
Nov. 6	11.480	329	51.83	134	8.914	341	45.96	161	13.621	325	40.80	145	60.927	349	53.77	133
16	11.809	327	50.49	130	9.255	337	47.57	208	13.946	326	39.35	144	61.276	350	52.44	120
26	12.136	316	49.19	122	9.592	321	49.65	249	14.272	317	37.91	137	61.626	341	51.24	103
Dez. 6	12.452	297	47.97	109	9.913	297	52.14	282	14.589	300	36.54	125	61.967	324	50.21	82
16	12.749	267	46.88	91	10.210	261	54.96	306	14.889	273	35.29	110	62.291	294	49.39	57
26	13.016	229	45.97	71	10.471	218	58.02	320	15.162	236	34.19	90	62.585	256	48.82	32
36	13.245		45.26		10.689		61.22		15.398		33.29		62.841		48.50	
Mittl. Ort	7.631		71.11		6.000		42.93		9.906		60.16		57.034		76.81	
sec δ, tg δ	1.069		+0.377		1.192		−0.648		1.054		+0.332		1.143		+0.554	
a, a'	+3.5		−12.1		+2.4		−13.0		+3.4		−13.0		+3.6		−13.1	
b, b'	−0.02		− 0.80		+0.03		− 0.76		−0.01		− 0.76		−0.02		− 0.76	

*) Bei Stern 327), 326) und 328) lies Jan. 31.

Scheinbare Sternörter 1938

Tag	330) δ Argus				334) ζ Hydrae				336) c Carinae				335) ι Ursae maj.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$8^h\ 42^m$		−54° 28′		$8^h\ 52^m$		+6° 10′		$8^h\ 53^m$		−60° 24′		$8^h\ 54^m$		+48° 16′	
	s		″		s		″		s		″		s		″	
Jan. 1	62.319	214	50.76	372	9.244	209	47.22	151	41.76	25	23.46	373	61.194	297	53.60	83
11	62.533	139	54.48	380	9.453	164	45.71	133	42.01	16	27.19	386	61.491	232	54.43	115
21	62.672	62	58.28	377	9.617	115	44.38	112	42.17	8	31.05	386	61.723	162	55.58	143
31	62.734	14	62.05	363	9.732	63	43.26	90	42.25	1	34.91	377	61.885	88	57.01	163
Febr. 9	[1]62.720	86	65.68	342	[3]9.795	13	42.36	67	[3]42.24	10	38.68	358	[4]61.973	14	58.64	174
19	62.634	153	69.10	312	9.808	34	41.69	47	42.14	17	42.26	332	61.987	56	60.38	179
März 1	62.481	211	72.22	276	9.774	74	41.22	26	41.97	24	45.58	298	61.931	119	62.17	174
11	62.270	257	74.98	236	9.700	107	40.96	10	41.73	30	48.56	259	61.812	170	63.91	160
21	62.013	292	77.34	190	9.593	132	40.86	5	41.43	34	51.15	215	61.642	210	65.51	141
31	61.721	317	79.24	143	9.461	147	40.91	17	41.09	37	53.30	167	61.432	238	66.92	114
Apr. 10	61.404	329	80.67	92	9.314	154	41.08	28	40.72	39	54.97	117	61.194	251	68.06	84
20	61.075	330	81.59	42	9.160	152	41.36	36	40.33	40	56.14	65	60.943	251	68.90	52
30	60.745	322	82.01	9	9.008	143	41.72	43	39.93	39	56.79	13	60.692	241	69.42	16
Mai 10	60.423	305	81.92	60	8.865	128	42.15	48	39.54	37	56.92	40	60.451	219	69.58	17
20	60.118	278	81.32	108	8.737	107	42.63	53	39.17	35	56.52	91	60.232	190	69.41	51
30	59.840	246	80.24	153	8.630	84	43.16	57	38.82	32	55.61	138	60.042	155	68.90	82
Juni 9	59.594	206	78.71	194	8.546	58	43.73	58	38.50	27	54.23	183	59.887	115	68.08	111
19	59.388	162	76.77	230	8.488	30	44.31	59	38.23	23	52.40	222	59.772	71	66.97	136
29	59.226	114	74.47	259	8.458	2	44.90	58	38.00	17	50.18	255	59.701	26	65.61	158
Juli 9	59.112	61	71.88	281	8.456	27	45.48	54	37.83	11	47.63	280	59.675	20	64.03	177
19	59.051	6	69.07	294	8.483	56	46.02	49	37.72	4	44.83	298	59.695	65	62.26	192
29	59.045	51	66.13	297	8.539	84	46.51	39	37.68	3	41.85	305	59.760	109	60.34	203
Aug. 8	59.096	110	63.16	291	8.623	111	46.90	28	37.71	9	38.80	302	59.869	153	58.31	211
18	59.206	167	60.25	275	8.734	140	47.18	12	37.80	16	35.78	289	60.022	195	56.20	216
28	59.373	225	57.50	247	8.874	166	47.30	6	37.96	24	32.89	266	60.217	235	54.04	217
Sept. 7	59.598	278	55.03	211	9.040	194	47.24	27	38.20	30	30.23	231	60.452	275	51.87	215
17	59.876	328	52.92	165	9.234	220	46.97	50	38.50	36	27.92	187	60.727	312	49.72	210
27	60.204	373	51.27	111	9.454	245	46.47	74	38.86	41	26.05	135	61.039	346	47.62	200
Okt. 7	60.577	408	50.16	52	9.699	267	45.73	99	39.27	46	24.70	75	61.385	378	45.62	186
17	60.985	434	49.64	12	9.966	287	44.74	122	39.73	50	23.95	12	61.763	405	43.76	168
27	61.419	448	49.76	76	10.253	303	43.52	142	40.23	51	23.83	53	62.168	425	42.08	145
Nov. 6	61.867	450	50.52	140	10.556	311	42.10	158	40.74	52	24.36	120	62.593	438	40.63	118
16	62.317	438	51.92	200	10.867	314	40.52	171	41.26	51	25.56	182	63.031	440	39.45	86
26	62.755	412	53.92	254	11.181	306	38.81	176	41.77	47	27.38	239	63.471	431	38.59	51
Dez. 6	63.167	371	56.46	299	11.487	291	37.05	177	42.24	43	29.77	288	63.902	410	38.08	14
16	63.538	318	59.45	335	11.778	266	35.28	170	42.67	37	32.65	328	64.312	375	37.94	25
26	63.856	255	62.80	360	12.044	232	33.58	159	43.04	30	35.93	359	64.687	329	38.19	63
36	64.111		66.40		12.276		31.99		43.34		39.52		65.016		38.82	
Mittl. Ort	59.516		51.04		7.107		57.51		38.68		25.07		58.407		70.86	
sec δ, tg δ	1.721		−1.401		1.006		+0.108		2.025		−1.761		1.503		+1.122	
a, *a′*	+1.7		−13.1		+3.2		−13.7		+1.4		−13.8		+4.2		−13.9	
b, *b′*	+0.06		− 0.76		0.00		− 0.73		+0.08		− 0.73		−0.05		− 0.72	

Obere Kulmination Greenwich

Tag	337) α Cancri AR.		337) α Cancri Dekl.		339) 10 Ursae maj. AR.		339) 10 Ursae maj. Dekl.		341) κ Ursae maj. AR.		341) κ Ursae maj. Dekl.		343) α Volantis AR.		343) α Volantis Dekl.	
1938	$8^h\ 55^m$		$+12°\ 5'$		$8^h\ 56^m$		$+42°\ 1'$		$8^h\ 59^m$		$+47°\ 23'$		$9^h\ 1^m$		$-66°\ 8'$	
	s		″		s		″		s		″		s		″	
Jan. 1	8.102	218	44.42	120	40.035	274	29.40	48	26.906	299	53.53	75	31.86	30	51.68	372
11	8.320	171	43.22	99	40.309	217	29.88	80	27.205	236	54.28	109	32.16	20	55.40	388
21	8.491	121	42.23	76	40.526	153	30.68	107	27.441	167	55.37	137	32.36	9	59.28	392
31	8.612	70	41.47	54	40.679	86	31.75	128	27.608	95	56.74	158	32.45	2	63.20	386
Febr. 9	^{4}8.682	19	40.93	32	^{4}40.765	19	33.03	142	^{5}27.703	22	58.32	171	^{5}32.43	11	67.06	371
19	8.701	30	40.61	12	40.784	44	34.45	150	27.725	48	60.03	176	32.32	21	70.77	347
März 1	8.671	72	40.49	4	40.740	100	35.95	149	27.677	109	61.79	173	32.11	29	74.24	316
11	8.599	106	40.53	17	40.640	147	37.44	140	27.568	161	63.52	161	31.82	36	77.40	278
21	8.493	132	40.70	27	40.493	183	38.84	126	27.407	201	65.13	143	31.46	41	80.18	235
31	8.361	148	40.97	34	40.310	207	40.10	105	27.206	229	66.56	118	31.05	46	82.53	189
Apr. 10	8.213	155	41.31	39	40.103	218	41.15	81	26.977	243	67.74	88	30.59	48	84.42	138
20	8.058	154	41.70	42	39.885	219	41.96	54	26.734	244	68.62	56	30.11	49	85.80	86
30	7.904	145	42.12	42	39.666	209	42.50	25	26.490	235	69.18	23	29.62	49	86.66	33
Mai 10	7.759	129	42.54	42	39.457	190	42.75	4	26.255	216	69.41	11	29.13	48	86.99	21
20	7.630	110	42.96	41	39.267	164	42.71	33	26.039	187	69.30	45	28.65	46	86.78	73
30	7.520	86	43.37	39	39.103	132	42.38	59	25.852	153	68.85	75	28.19	41	86.05	124
Juni 9	7.434	59	43.76	36	38.971	97	41.79	85	25.699	114	68.10	104	27.78	37	84.81	170
19	7.375	31	44.12	33	38.874	57	40.94	107	25.585	73	67.06	129	27.41	31	83.11	212
29	7.344	2	44.45	28	38.817	18	39.87	127	25.512	29	65.77	152	27.10	25	80.99	248
Juli 9	7.342	27	44.73	21	38.799	22	38.60	144	25.483	15	64.25	171	26.85	17	78.51	277
19	7.369	56	44.94	14	38.821	62	37.16	159	25.498	59	62.54	187	26.68	9	75.74	297
29	7.425	84	45.08	4	38.883	101	35.57	170	25.557	103	60.67	199	26.59	1	72.77	308
Aug. 8	7.509	113	45.12	8	38.984	140	33.87	180	25.660	146	58.68	208	26.58	7	69.69	309
18	7.622	140	45.04	22	39.124	176	32.07	187	25.806	187	56.60	213	26.65	17	66.60	299
28	7.762	168	44.82	39	39.300	213	30.20	191	25.993	227	54.47	216	26.82	25	63.61	278
Sept. 7	7.930	196	44.43	57	39.513	248	28.29	193	26.220	266	52.31	215	27.07	34	60.83	246
17	8.126	222	43.86	75	39.761	282	26.36	192	26.486	304	50.16	210	27.41	42	58.37	204
27	8.348	247	43.11	96	40.043	313	24.44	187	26.790	338	48.06	202	27.83	49	56.33	153
Okt. 7	8.595	271	42.15	115	40.356	343	22.57	179	27.128	370	46.04	189	28.32	54	54.80	96
17	8.866	292	41.00	132	40.699	367	20.78	167	27.498	397	44.15	172	28.86	59	53.84	32
27	9.158	307	39.68	146	41.066	387	19.11	150	27.895	418	42.43	151	29.45	61	53.52	34
Nov. 6	9.465	317	38.22	157	41.453	399	17.61	128	28.313	432	40.92	124	30.06	61	53.86	101
16	9.782	320	36.65	162	41.852	402	16.33	103	28.745	436	39.68	93	30.67	60	54.87	166
26	10.102	313	35.03	162	42.254	395	15.30	74	29.181	428	38.75	58	31.27	57	56.53	224
Dez. 6	10.415	299	33.41	156	42.649	376	14.56	40	29.609	408	38.17	21	31.84	51	58.77	277
16	10.714	274	31.85	145	43.025	345	14.16	6	30.017	375	37.96	17	32.35	44	61.54	321
26	10.988	240	30.40	130	43.370	304	14.10	29	30.392	329	38.13	55	32.79	36	64.75	354
36	11.228		29.10		43.674		14.39		30.721		38.68		33.15		68.29	
Mittl. Ort	5.946		55.91		37.456		45.98		24.184		70.95		28.36		54.41	
sec δ, tg δ	1.023		+0.214		1.346		+0.901		1.477		+1.083		2.473		−2.262	
a, *a′*	+3.3		−13.9		+3.9		−14.0		+4.1		−14.1		+0.9		−14.3	
b, *b′*	−0.01		−0.72		−0.04		−0.72		−0.05		−0.71		+0.11		−0.70	

Scheinbare Sternörter 1938

Tag	344) σ² Ursae maj. AR.		344) σ² Ursae maj. Dekl.		345) λ Argus AR.		345) λ Argus Dekl.		347) ϑ Hydrae AR.		347) ϑ Hydrae Dekl.		348) β Argus AR.		348) β Argus Dekl.	
1938	9ʰ 4ᵐ		+67° 22′		9ʰ 5ᵐ		−43° 10′		9ʰ 11ᵐ		+2° 34′		9ʰ 12ᵐ		−69° 27′	
Jan. 1	61.95	48	57.69	166	45.182	228	53.69	348	10.481	223	26.87	177	35.51	35	38.15	365
11	62.43	37	59.35	204	45.410	169	57.17	355	10.704	179	25.10	159	35.86	24	41.80	384
21	62.80	25	61.39	232	45.579	107	60.72	352	10.883	132	23.51	139	36.10	13	45.64	392
31	63.05	14	63.71	251	45.686	43	64.24	340	11.015	81	22.12	117	36.23	0	49.56	391
Febr. 9	^{6}63.19	1	66.22	259	^{6}45.729	18	67.64	320	^{8}11.096	30	20.95	92	^{8}36.23	11	53.47	378
19	63.20	11	68.81	257	45.711	75	70.84	292	11.126	16	20.03	70	36.12	22	57.25	358
März 1	63.09	21	71.38	243	45.636	124	73.76	260	11.110	57	19.33	48	35.90	32	60.83	329
11	62.88	31	73.81	219	45.512	166	76.36	223	11.053	93	18.85	28	35.58	39	64.12	294
21	62.57	38	76.00	186	45.346	198	78.59	182	10.960	119	18.57	9	35.19	46	67.06	253
31	62.19	44	77.86	146	45.148	222	80.41	139	10.841	136	18.48	6	34.73	52	69.59	208
Apr. 10	61.75	46	79.32	102	44.926	234	81.80	93	10.705	146	18.54	19	34.21	55	71.67	158
20	61.29	48	80.34	54	44.692	238	82.73	47	10.559	148	18.73	32	33.66	57	73.25	107
30	60.81	47	80.88	4	44.454	235	83.20	2	10.411	141	19.05	42	33.09	57	74.32	54
Mai 10	60.34	44	80.92	44	44.219	222	83.22	44	10.270	129	19.47	51	32.52	57	74.86	1
20	59.90	40	80.48	91	43.997	205	82.78	88	10.141	112	19.98	58	31.95	54	74.85	54
30	59.50	34	79.57	135	43.792	181	81.90	129	10.029	92	20.56	64	31.41	50	74.31	106
Juni 9	59.16	28	78.22	174	43.611	153	80.61	167	9.937	69	21.20	68	30.91	46	73.25	154
19	58.88	20	76.48	209	43.458	122	78.94	201	9.868	44	21.88	71	30.45	39	71.71	199
29	58.68	12	74.39	237	43.336	86	76.93	227	9.824	17	22.59	71	30.06	32	69.72	238
Juli 9	58.56	4	72.02	261	43.250	47	74.66	248	9.807	9	23.30	70	29.74	24	67.34	269
19	58.52	3	69.41	279	43.203	7	72.18	262	9.816	37	24.00	64	29.50	15	64.65	293
29	58.55	12	66.62	290	43.196	35	69.56	266	9.853	64	24.64	55	29.35	5	61.72	307
Aug. 8	58.67	20	63.72	297	43.231	79	66.90	262	9.917	92	25.19	44	29.30	5	58.65	311
18	58.87	28	60.75	297	43.310	123	64.28	248	10.009	120	25.63	29	29.35	15	55.54	305
28	59.15	35	57.78	291	43.433	168	61.80	224	10.129	148	25.92	9	29.50	26	52.49	288
Sept. 7	59.50	42	54.87	280	43.601	212	59.56	192	10.277	177	26.01	14	29.76	35	49.61	259
17	59.92	49	52.07	264	43.813	254	57.64	150	10.454	205	25.87	38	30.11	45	47.02	219
27	60.41	55	49.43	242	44.067	293	56.14	101	10.659	231	25.49	65	30.56	54	44.83	172
Okt. 7	60.96	61	47.01	214	44.360	326	55.13	47	10.890	257	24.84	92	31.10	60	43.11	115
17	61.57	65	44.87	181	44.686	354	54.66	12	11.147	280	23.92	119	31.70	65	41.96	52
27	62.22	68	43.06	143	45.040	373	54.78	71	11.427	297	22.73	143	32.35	69	41.44	13
Nov. 6	62.90	70	41.63	100	45.413	383	55.49	131	11.724	310	21.30	164	33.04	70	41.57	80
16	63.60	71	40.63	54	45.796	381	56.80	187	12.034	315	19.66	180	33.74	69	42.37	145
26	64.31	69	40.09	4	46.177	367	58.67	236	12.349	311	17.86	190	34.43	66	43.82	207
Dez. 6	65.00	66	40.05	46	46.544	342	61.03	279	12.660	299	15.96	194	35.09	59	45.89	262
16	65.66	60	40.51	96	46.886	305	63.82	312	12.959	276	14.02	191	35.68	51	48.51	308
26	66.26	52	41.47	142	47.191	259	66.94	336	13.235	244	12.11	183	36.19	42	51.59	345
36	66.78		42.89		47.450		70.30		13.479		10.28		36.61		55.04	
Mittl. Ort	57.95		77.32		42.782		53.36		8.425		36.63		31.67		41.89	
sec δ, tg δ	2.601		+2.401		1.371		−0.939		1.001		+0.045		2.850		−2.669	
a, *a′*	+5.3		−14.5		+2.2		−14.5		+3.1		−14.8		+0.7		−14.9	
b, *b′*	−0.12		− 0.69		+0.05		− 0.69		0.00		− 0.67		+0.13		− 0.67	

Obere Kulmination Greenwich

Tag	350) 83 Cancri AR.		350) 83 Cancri Dekl.		352) 40 Lyncis AR.		352) 40 Lyncis Dekl.		353) κ Argus AR.		353) κ Argus Dekl.		354) α Hydrae AR.		354) α Hydrae Dekl.	
1938	$9^h\ 15^m$		$+17°\ 57'$		$9^h\ 17^m$		$+34°\ 38'$		$9^h\ 20^m$		$-54°\ 44'$		$9^h\ 24^m$		$-8°\ 23'$	
	s		″		s		″		s		″		s		″	
Jan. 1	33.587	241	56.01	96	19.352	274	64.61	5	14.222	277	40.83	359	34.490	229	27.39	230
11	33.828	196	55.05	71	19.626	223	64.56	27	14.499	205	44.42	375	34.719	186	29.69	219
21	34.024	146	54.34	45	19.849	166	64.83	57	14.704	130	48.17	379	34.905	139	31.88	203
31	34.170	93	53.89	21	20.015	106	65.40	82	14.834	54	51.96	373	35.044	89	33.91	183
Febr. 9*)	^{9}34.263	40	53.68	2	^{9}20.121	45	66.22	103	^{10}14.888	20	55.69	358	^{11}35.133	38	35.74	160
19	34.303	10	53.70	22	20.166	13	67.25	116	14.868	90	59.27	335	35.171	8	37.34	134
März 1	34.293	55	53.92	36	20.153	65	68.41	123	14.778	152	62.62	306	35.163	50	38.68	109
11	34.238	93	54.28	47	20.088	110	69.64	124	14.626	204	65.68	269	35.113	85	39.77	83
21	34.145	122	54.75	55	19.978	145	70.88	117	14.422	248	68.37	229	35.028	113	40.60	57
31	34.023	142	55.30	57	19.833	170	72.05	105	14.174	279	70.66	185	34.915	132	41.17	33
Apr. 10	33.881	153	55.87	56	19.663	184	73.10	90	13.895	301	72.51	137	34.783	143	41.50	10
20	33.728	156	56.43	54	19.479	188	74.00	69	13.594	312	73.88	87	34.640	147	41.60	12
30	33.572	149	56.97	48	19.291	183	74.69	48	13.282	313	74.75	37	34.493	144	41.48	32
Mai 10	33.423	137	57.45	41	19.108	169	75.17	24	12.969	305	75.12	13	34.349	134	41.16	51
20	33.286	120	57.86	34	18.939	149	75.41	1	12.664	289	74.99	63	34.215	120	40.65	69
30	33.166	99	58.20	25	18.790	124	75.42	22	12.375	266	74.36	111	34.095	102	39.96	84
Juni 9	33.067	73	58.45	17	18.666	95	75.20	44	12.109	235	73.25	155	33.993	82	39.12	97
19	32.994	47	58.62	8	18.571	64	74.76	64	11.874	199	71.70	196	33.911	58	38.15	108
29	32.947	20	58.70	2	18.507	31	74.12	84	11.675	157	69.74	230	33.853	34	37.07	116
Juli 9	32.927	9	58.68	12	18.476	3	73.28	102	11.518	111	67.44	257	33.819	9	35.91	120
19	32.936	38	58.56	23	18.479	37	72.26	117	11.407	60	64.87	278	33.810	18	34.71	120
29	32.974	67	58.33	35	18.516	71	71.09	132	11.347	5	62.09	289	33.828	46	33.51	114
Aug. 8	33.041	95	57.98	47	18.587	105	69.77	144	11.342	52	59.20	291	33.874	75	32.37	105
18	33.136	124	57.51	62	18.692	138	68.33	156	11.394	112	56.29	282	33.949	103	31.32	89
28	33.260	154	56.89	76	18.830	172	66.77	166	11.506	171	53.47	263	34.052	132	30.43	69
Sept. 7	33.414	182	56.13	93	19.002	206	65.11	173	11.677	230	50.84	234	34.184	163	29.74	44
17	33.596	212	55.20	109	19.208	238	63.38	180	11.907	287	48.50	194	34.347	193	29.30	14
27	33.808	239	54.11	124	19.446	270	61.58	182	12.194	339	46.56	146	34.540	223	29.16	20
Okt. 7	34.047	266	52.87	139	19.716	300	59.76	182	12.533	385	45.10	91	34.763	250	29.36	55
17	34.313	290	51.48	151	20.016	326	57.94	178	12.918	422	44.19	30	35.013	275	29.91	90
27	34.603	310	49.97	160	20.342	348	56.16	170	13.340	448	43.89	34	35.288	295	30.81	126
Nov. 6	34.913	324	48.37	164	20.690	364	54.46	157	13.788	461	44.23	97	35.583	309	32.07	158
16	35.237	330	46.73	163	21.054	372	52.89	138	14.249	461	45.20	159	35.892	316	33.65	185
26	35.567	327	45.10	157	21.426	370	51.51	115	14.710	445	46.79	217	36.208	313	35.50	207
Dez. 6	35.894	316	43.53	146	21.796	357	50.36	87	15.155	414	48.96	268	36.521	302	37.57	223
16	36.210	295	42.07	129	22.153	333	49.49	56	15.569	370	51.64	309	36.823	280	39.80	230
26	36.505	262	40.78	108	22.486	297	48.93	24	15.939	314	54.73	342	37.103	250	42.10	231
36	36.767		39.70		22.783		48.69		16.253		58.15		37.353		44.41	
Mittl. Ort	31.480		69.17		17.063		81.05		11.515		43.11		32.484		20.16	
sec δ, tg δ	1.051		+0.324		1.216		+0.691		1.732		−1.415		1.011		−0.148	
a, *a′*	+3.4		−15.1		+3.7		−15.2		+1.9		−15.4		+2.9		−15.6	
b, *b′*	−0.02		− 0.66		−0.03		− 0.65		+0.07		− 0.64		+0.01		− 0.63	

*) Bei Stern 353) und 354) lies Febr. 10.

Scheinbare Sternörter 1938

Tag	355) *h* Ursae maj.				359) ψ Argus				358) ϑ Ursae maj.				357) *d* Ursae maj.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$9^h\,26^m$		$+63°\,19'$		$9^h\,28^m$		$-40°\,11'$		$9^h\,28^m$		$+51°\,57'$		$9^h\,29^m$		$+70°\,5'$	
	s		"		s		"		s		"		s		"	
Jan. 1	43.15	45	43.03	129	17.616	251	40.02	334	46.034	351	20.00	74	6.19	57	54.58	155
11	43.60	37	44.32	171	17.867	196	43.36	344	46.385	289	20.74	113	6.76	46	56.13	198
21	43.97	27	46.03	205	18.063	138	46.80	343	46.674	217	21.87	148	7.22	34	58.11	232
31	44.24	17	48.08	230	18.201	78	50.23	333	46.891	140	23.35	175	7.56	21	60.43	256
Febr. 10	44.41	6	50.38	246	18.279	18	53.56	316	47.031	61	25.10	193	7.77	7	62.99	271
19	44.47	3	52.84	250	18.297	38	56.72	292	47.092	16	27.03	203	7.84	6	65.70	273
März 1	44.44	14	55.34	243	18.259	87	59.64	262	47.076	86	29.06	203	7.78	19	68.43	263
11	44.30	22	57.77	226	18.172	130	62.26	228	46.990	148	31.09	193	7.59	30	71.06	243
21	44.08	29	60.03	201	18.042	164	64.54	189	46.842	199	33.02	176	7.29	40	73.49	214
31	43.79	34	62.04	167	17.878	189	66.43	149	46.643	235	34.78	150	6.89	46	75.63	175
Apr. 10	43.45	38	63.71	127	17.689	206	67.92	107	46.408	260	36.28	120	6.43	51	77.38	131
20	43.07	39	64.98	83	17.483	213	68.99	63	46.148	270	37.48	85	5.92	54	78.69	82
30	42.68	39	65.81	36	17.270	213	69.62	19	45.878	268	38.33	48	5.38	54	79.51	32
Mai 10	42.29	38	66.17	10	17.057	206	69.81	25	45.610	255	38.81	9	4.84	52	79.83	19
20	41.91	34	66.07	57	16.851	194	69.56	67	45.355	233	38.90	30	4.32	49	79.64	69
30	41.57	30	65.50	100	16.657	175	68.89	108	45.122	203	38.60	67	3.83	44	78.95	117
Juni 9	41.27	26	64.50	141	16.482	152	67.81	144	44.919	166	37.93	101	3.39	37	77.78	160
19	41.01	20	63.09	178	16.330	125	66.37	178	44.753	126	36.92	134	3.02	29	76.18	200
29	40.81	13	61.31	209	16.205	96	64.59	207	44.627	82	35.58	162	2.73	22	74.18	234
Juli 9	40.68	7	59.22	237	16.109	61	62.52	228	44.545	37	33.96	187	2.51	12	71.84	262
19	40.61	1	56.85	259	16.048	26	60.24	244	44.508	10	32.09	208	2.39	4	69.22	285
29	40.60	7	54.26	275	16.022	13	57.80	251	44.518	57	30.01	226	2.35	5	66.37	301
Aug. 8	40.67	13	51.51	286	16.035	53	55.29	249	44.575	103	27.75	239	2.40	14	63.36	312
18	40.80	19	48.65	292	16.088	95	52.80	239	44.678	150	25.36	248	2.54	24	60.24	315
28	40.99	26	45.73	293	16.183	138	50.41	219	44.828	197	22.88	252	2.78	32	57.09	314
Sept. 7	41.25	33	42.80	287	16.321	181	48.22	191	45.025	243	20.36	253	3.10	40	53.95	306
17	41.58	38	39.93	276	16.502	223	46.31	153	45.268	286	17.83	250	3.50	49	50.89	292
27	41.96	45	37.17	260	16.725	264	44.78	107	45.554	330	15.33	241	3.99	56	47.97	271
Okt. 7	42.41	49	34.57	238	16.989	301	43.71	56	45.884	369	12.92	227	4.55	63	45.26	245
17	42.90	54	32.19	209	17.290	331	43.15	1	46.253	405	10.65	209	5.18	69	42.81	213
27	43.44	58	30.10	176	17.621	356	43.14	57	46.658	434	8.56	185	5.87	74	40.68	174
Nov. 6	44.02	60	28.34	137	17.977	370	43.71	114	47.092	457	6.71	155	6.61	77	38.94	130
16	44.62	62	26.97	93	18.347	375	44.85	169	47.549	468	5.16	120	7.38	78	37.64	82
26	45.24	61	26.04	45	18.722	368	46.54	219	48.017	466	3.96	81	8.16	78	36.82	30
Dez. 6	45.85	60	25.59	4	19.090	349	48.73	262	48.483	453	3.15	39	8.94	75	36.52	23
16	46.45	54	25.63	55	19.439	318	51.35	296	48.936	425	2.76	6	9.69	69	36.75	77
26	46.99	50	26.18	102	19.757	277	54.31	321	49.361	382	2.82	50	10.38	63	37.52	128
36	47.49		27.20		20.034		57.52		49.743		3.32		11.01		38.80	
Mittl. Ort	39.86		63.80		15.346		40.07		43.396		39.66		2.21		75.99	
sec δ, tg δ	2.227		+1.991		1.309		−0.845		1.623		+1.278		2.939		+2.763	
a, *a′*	+4.7		−15.7		+2.4		−15.8		+4.1		−15.8		+5.3		−15.9	
b, *b′*	−0.10		−0.62		+0.04		−0.61		−0.07		−0.61		−0.15		−0.61	

Tag	360) 10 Leonis min. AR.		Dekl.		366) ϑ Antliae AR.		Dekl.		367) ε Leonis AR.		Dekl.		369) υ Argus AR.		Dekl.	
1938	9h 30m		+36° 39′		9h 41m		−27° 29′		9h 42m		+24° 3′		9h 45m		−64° 46′	
	s		″		s		″		s		″		s		″	
Jan. 1	28.199	291	68.78	3	28.245	249	7.71	299	22.206	272	23.07	77	36.37	39	57.25	347
11	28.490	241	68.75	31	28.494	204	10.70	302	22.478	228	22.30	46	36.76	29	60.72	372
21	28.731	185	69.06	64	28.698	152	13.72	296	22.706	179	21.84	17	37.05	20	64.44	386
31	28.916	124	69.70	91	28.850	100	16.68	284	22.885	125	21.67	12	37.25	11	68.30	390
Febr. 10	29.040	62	70.61	113	28.950	47	19.52	265	23.010	70	21.79	37	37.36	1	72.20	384
	13				16				16				17			
19	29.102	1	71.74	129	28.997	4	22.17	241	23.080	17	22.16	58	37.37	9	76.04	368
März 1	29.103	53	73.03	137	28.993	50	24.58	212	23.097	31	22.74	73	37.28	17	79.72	345
11	29.050	100	74.40	137	28.943	88	26.70	181	23.066	73	23.47	84	37.11	24	83.17	314
21	28.950	139	75.77	132	28.855	120	28.51	147	22.993	108	24.31	88	36.87	31	86.31	277
31	28.811	166	77.09	119	28.735	143	29.98	113	22.885	132	25.19	87	36.56	35	89.08	236
Apr. 10	28.645	183	78.28	102	28.592	158	31.11	78	22.753	149	26.06	83	36.21	40	91.44	190
20	28.462	190	79.30	81	28.434	167	31.89	41	22.604	156	26.89	74	35.81	42	93.34	141
30	28.272	187	80.11	57	28.267	167	32.30	5	22.448	155	27.63	63	35.39	43	94.75	89
Mai 10	28.085	177	80.68	32	28.100	161	32.35	29	22.293	147	28.26	50	34.96	44	95.64	37
20	27.908	159	81.00	6	27.939	151	32.06	63	22.146	134	28.76	35	34.52	42	96.01	17
30	27.749	135	81.06	20	27.788	136	31.43	94	22.012	115	29.11	20	34.10	41	95.84	69
Juni 9	27.614	108	80.86	44	27.652	118	30.49	123	21.897	93	29.31	4	33.69	37	95.15	119
19	27.506	79	80.42	68	27.534	95	29.26	149	21.804	70	29.35	12	33.32	34	93.96	166
29	27.427	46	79.74	89	27.439	72	27.77	171	21.734	43	29.23	27	32.98	29	92.30	207
Juli 9	27.381	12	78.85	110	27.367	44	26.06	186	21.691	16	28.96	42	32.69	23	90.23	243
19	27.369	22	77.75	128	27.323	16	24.20	197	21.675	11	28.54	58	32.46	16	87.80	272
29	27.391	56	76.47	144	27.307	15	22.23	201	21.686	41	27.96	72	32.30	9	85.08	292
Aug. 8	27.447	90	75.03	158	27.322	48	20.22	197	21.727	70	27.24	88	32.21	2	82.16	302
18	27.537	125	73.45	171	27.370	81	18.25	186	21.797	100	26.36	103	32.19	7	79.14	302
28	27.662	161	71.74	181	27.451	118	16.39	167	21.897	132	25.33	118	32.26	16	76.12	291
Sept. 7	27.823	195	69.93	190	27.569	154	14.72	140	22.029	162	24.15	133	32.42	24	73.21	269
17	28.018	230	68.03	196	27.723	190	13.32	106	22.191	195	22.82	147	32.66	32	70.52	236
27	28.248	264	66.07	198	27.913	226	12.26	66	22.386	227	21.35	159	32.98	40	68.16	193
Okt. 7	28.512	296	64.09	197	28.139	260	11.60	21	22.613	257	19.76	170	33.38	48	66.23	142
17	28.808	326	62.12	192	28.399	290	11.39	28	22.870	286	18.06	177	33.86	53	64.81	83
27	29.134	350	60.20	183	28.689	314	11.67	77	23.156	310	16.29	181	34.39	57	63.98	19
Nov. 6	29.484	369	58.37	167	29.003	331	12.44	126	23.466	329	14.48	179	34.96	59	63.79	46
16	29.853	380	56.70	147	29.334	340	13.70	172	23.795	342	12.69	172	35.55	60	64.25	113
26	30.233	380	55.23	122	29.674	338	15.42	213	24.137	345	10.97	160	36.15	59	65.38	175
Dez. 6	30.613	370	54.01	92	30.012	327	17.55	247	24.482	337	9.37	142	36.74	56	67.13	232
16	30.983	349	53.09	59	30.339	304	20.02	273	24.819	320	7.95	119	37.30	50	69.45	283
26	31.332	314	52.50	23	30.643	270	22.75	290	25.139	291	6.76	93	37.80	43	72.28	324
36	31.646		52.27		30.913		25.65		25.430		5.83		38.23		75.52	
Mittl. Ort	25.961		86.12		26.193		5.41		20.191		38.22		33.18		62.35	
sec δ, tg δ	1.247		+0.745		1.127		−0.520		1.095		+0.447		2.347		−2.124	
a, *a′*	+3.7		−15.9		+2.7		−16.5		+3.4		−16.5		+1.5		−16.7	
b, *b′*	−0.04		− 0.61		+0.03		− 0.57		−0.02		− 0.57		+0.12		− 0.55	

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Tag	368) υ Ursae maj. AR.		368) υ Ursae maj. Dekl.		370) 6 Sextantis AR.		370) 6 Sextantis Dekl.		372) Grb 1586 AR.		372) Grb 1586 Dekl.		378) π Leonis AR.		378) π Leonis Dekl.	
1938	$9^h\ 46^m$		$+59°\ 19'$		$9^h\ 48^m$		$-3°\ 57'$		$9^h\ 52^m$		$+73°\ 9'$		$9^h\ 56^m$		$+8°\ 20'$	
	s		″		s		″		s		″		s		″	
Jan. 1	38.736	431	31.99	93	8.529	249	15.40	213	57.10	70	69.15	142	58.219	262	21.43	160
11	39.167	361	32.92	137	8.778	209	17.53	199	57.80	59	70.57	189	58.481	223	19.83	139
21	39.528	280	34.29	175	8.987	163	19.52	183	58.39	46	72.46	228	58.704	178	18.44	114
31	39.808	190	36.04	205	9.150	115	21.35	162	58.85	30	74.74	259	58.882	129	17.30	89
Febr. 10	17 39.998	98	38.09	227	17 9.265	65	22.97	137	18 59.15	15	77.33	278	19 59.011	79	16.41	63
19	40.096	6	40.36	238	9.330	18	24.34	113	59.30	1	80.11	286	59.090	31	15.78	39
März 1	40.102	81	42.74	239	9.348	25	25.47	88	59.29	16	82.97	281	59.121	14	15.39	16
11	40.021	158	45.13	228	9.323	63	26.35	63	59.13	30	85.78	265	59.107	54	15.23	3
21	39.863	223	47.41	208	9.260	92	26.98	41	58.83	41	88.43	238	59.053	85	15.26	19
31	39.640	274	49.49	181	9.168	115	27.39	19	58.42	52	90.81	202	58.968	109	15.45	32
Apr. 10	39.366	309	51.30	146	9.053	129	27.58	0	57.90	58	92.83	159	58.859	125	15.77	42
20	39.057	330	52.76	106	8.924	136	27.58	17	57.32	62	94.42	110	58.734	134	16.19	48
30	38.727	334	53.82	64	8.788	136	27.41	34	56.70	64	95.52	59	58.600	135	16.67	53
Mai 10	38.393	326	54.46	19	8.652	130	27.07	48	56.06	64	96.11	6	58.465	130	17.20	55
20	38.067	306	54.65	26	8.522	120	26.59	60	55.42	62	96.17	47	58.335	120	17.75	55
30	37.761	276	54.39	69	8.402	106	25.99	72	54.80	56	95.70	98	58.215	107	18.30	54
Juni 9	37.485	237	53.70	110	8.296	88	25.27	81	54.24	50	94.72	146	58.108	90	18.84	52
19	37.248	192	52.60	148	8.208	68	24.46	88	53.74	42	93.26	189	58.018	70	19.36	49
29	37.056	142	51.12	181	8.140	47	23.58	93	53.32	33	91.37	228	57.948	49	19.85	43
Juli 9	36.914	90	49.31	212	8.093	24	22.65	94	52.99	24	89.09	261	57.899	26	20.28	36
19	36.824	34	47.19	237	8.069	1	21.71	92	52.75	14	86.48	288	57.873	2	20.64	28
29	36.790	22	44.82	257	8.070	27	20.79	86	52.61	4	83.60	310	57.871	24	20.92	17
Aug. 8	36.812	80	42.25	273	8.097	53	19.93	76	52.57	7	80.50	324	57.895	49	21.09	4
18	36.892	137	39.52	284	8.150	82	19.17	61	52.64	18	77.26	332	57.944	77	21.13	12
28	37.029	195	36.68	288	8.232	111	18.56	42	52.82	28	73.94	334	58.021	107	21.01	31
Sept. 7	37.224	252	33.80	289	8.343	142	18.14	20	53.10	39	70.60	329	58.128	137	20.70	50
17	37.476	308	30.91	284	8.485	173	17.94	8	53.49	49	67.31	318	58.265	168	20.20	73
27	37.784	361	28.07	272	8.658	205	18.02	38	53.98	58	64.13	299	58.433	200	19.47	96
Okt. 7	38.145	413	25.35	256	8.863	235	18.40	69	54.56	67	61.14	274	58.633	231	18.51	118
17	38.558	458	22.79	235	9.098	262	19.09	101	55.23	75	58.40	243	58.864	260	17.33	141
27	39.016	497	20.47	204	9.360	287	20.10	132	55.98	81	55.97	204	59.124	285	15.92	160
Nov. 6	39.513	528	18.43	169	9.647	305	21.42	160	56.79	86	53.93	161	59.409	305	14.32	175
16	40.041	546	16.74	128	9.952	316	23.02	184	57.65	89	52.32	111	59.714	319	12.57	186
26	40.587	550	15.46	83	10.268	319	24.86	202	58.54	90	51.21	56	60.033	324	10.71	191
Dez. 6	41.137	538	14.63	35	10.587	311	26.88	213	59.44	88	50.65	1	60.357	320	8.80	190
16	41.675	510	14.28	15	10.898	294	29.01	217	60.32	84	50.64	56	60.677	304	6.90	183
26	42.185	465	14.43	65	11.192	267	31.18	216	61.16	76	51.20	111	60.981	279	5.07	168
36	42.650		15.08		11.459		33.34		61.92		52.31		61.260		3.39	
Mittl. Ort	35.966		53.48		6.624		7.19		53.12		92.13		56.353		32.92	
sec δ, tg δ	1.961		+1.686		1.002		−0.069		3.455		+3.307		1.011		+0.147	
a, *a′*	+4.3		−16.7		+3.0		−16.8		+5.4		−17.0		+3.2		−17.2	
b, *b′*	−0.09		−0.55		0.00		−0.54		−0.19		−0.53		−0.01		−0.51	

Tag	379) η Leonis				380) α Leonis				381) λ Hydrae				382) q Velorum			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$10^h\ 3^m$		$+17^\circ\ 3'$		$10^h\ 5^m$		$+12^\circ\ 15'$		$10^h\ 7^m$		$-12^\circ\ 2'$		$10^h\ 12^m$		$-41^\circ\ 48'$	
Jan. 1	$59^s.184$	276	$42''.78$	122	$6^s.196$	271	$62''.65$	145	$35^s.784$	263	$54''.56$	245	$9^s.841$	302	$48''.76$	317
11	59.460	237	41.56	95	6.467	233	61.20	121	36.047	224	57.01	239	10.143	254	51.93	333
21	59.697	191	40.61	66	6.700	188	59.99	94	36.271	179	59.40	227	10.397	198	55.26	341
31	59.888	142	39.95	36	6.888	139	59.05	66	36.450	131	61.67	209	10.595	139	58.67	339
Febr. 10	60.030	90	39.59	10	7.027	88	58.39	40	36.581	82	63.76	188	10.734	80	62.06	329
20	60.120	40	39.49	15	7.115	39	57.99	15	36.663	35	65.64	163	10.814	22	65.35	311
März 1	[21] 60.160	8	39.64	35	[22] 7.154	6	57.84	8	[22] 36.698	9	67.27	137	[23] 10.836	31	68.46	287
11	60.152	49	39.99	52	7.148	47	57.92	25	36.689	48	68.64	111	10.805	78	71.33	258
21	60.103	83	40.51	63	7.101	80	58.17	40	36.641	80	69.75	84	10.727	118	73.91	225
31	60.020	110	41.14	69	7.021	106	58.57	50	36.561	104	70.59	58	10.609	150	76.16	187
Apr. 10	59.910	127	41.83	72	6.915	123	59.07	56	36.457	121	71.17	33	10.459	174	78.03	148
20	59.783	138	42.55	71	6.792	133	59.63	60	36.336	132	71.50	9	10.285	190	79.51	106
30	59.645	140	43.26	66	6.659	136	60.23	60	36.204	135	71.59	13	10.095	200	80.57	64
Mai 10	59.505	136	43.92	60	6.523	132	60.83	59	36.069	133	71.46	35	9.895	201	81.21	21
20	59.369	127	44.52	52	6.391	123	61.42	55	35.936	126	71.11	56	9.694	197	81.42	23
30	59.242	114	45.04	42	6.268	111	61.97	50	35.810	115	70.55	74	9.497	189	81.19	65
Juni 9	59.128	96	45.46	31	6.157	94	62.47	43	35.695	101	69.81	89	9.308	174	80.54	104
19	59.032	77	45.77	20	6.063	76	62.90	36	35.594	85	68.92	104	9.134	155	79.50	142
29	58.955	56	45.97	8	5.987	55	63.26	28	35.509	65	67.88	114	8.979	133	78.08	174
Juli 9	58.899	32	46.05	5	5.932	33	63.54	18	35.444	44	66.74	122	8.846	105	76.34	202
19	58.867	8	46.00	18	5.899	9	63.72	7	35.400	21	65.52	125	8.741	74	74.32	224
29	58.859	19	45.82	33	5.890	16	63.79	6	35.379	4	64.27	123	8.667	39	72.08	238
Aug. 8	58.878	45	45.49	49	5.906	43	63.73	20	35.383	31	63.04	116	8.628	1	69.70	245
18	58.923	73	45.00	65	5.949	70	63.53	37	35.414	60	61.88	105	8.627	42	67.25	242
28	58.996	104	44.35	83	6.019	100	63.16	55	35.474	90	60.83	87	8.669	86	64.83	230
Sept. 7	59.100	134	43.52	101	6.119	130	62.61	74	35.564	123	59.96	63	8.755	133	62.53	210
17	59.234	167	42.51	119	6.249	162	61.87	95	35.687	157	59.33	35	8.888	180	60.43	179
27	59.401	200	41.32	138	6.411	195	60.92	115	35.844	191	58.98	3	9.068	228	58.64	140
Okt. 7	59.601	232	39.94	154	6.606	227	59.77	136	36.035	225	58.95	33	9.296	272	57.24	94
17	59.833	262	38.40	169	6.833	257	58.41	155	36.260	255	59.28	70	9.568	313	56.30	42
27	60.095	290	36.71	180	7.090	284	56.86	170	36.515	283	59.98	108	9.881	347	55.88	13
Nov. 6	60.385	312	34.91	187	7.374	306	55.16	182	36.798	305	61.06	143	10.228	372	56.01	70
16	60.697	327	33.04	188	7.680	321	53.34	189	37.103	318	62.49	175	10.600	387	56.71	127
26	61.024	334	31.16	184	8.001	327	51.45	190	37.421	324	64.24	203	10.987	390	57.98	180
Dez. 6	61.358	331	29.32	173	8.328	325	49.55	184	37.745	320	66.27	223	11.377	381	59.78	227
16	61.689	317	27.59	157	8.653	311	47.71	173	38.065	305	68.50	236	11.758	360	62.05	267
26	62.006	294	26.02	135	8.964	288	45.98	155	38.370	279	70.86	243	12.118	325	64.72	300
36	62.300		24.67		9.252		44.43		38.649		73.29		12.443		67.72	
Mittl. Ort	57.331		56.64		4.364		75.25		33.939		48.78		7.709		50.92	
sec δ, tg δ	1.046		+0.307		1.023		+0.218		1.023		−0.213		1.342		−0.895	
a, *a'*	+3.3		−17.5		+3.2		−17.6		+2.9		−17.7		+2.5		−17.9	
b, *b'*	−0.02		−0.49		−0.01		−0.48		+0.01		−0.47		+0.05		−0.45	

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Tag		384) ζ Leonis AR.		384) ζ Leonis Dekl.		383) λ Ursae maj. AR.		383) λ Ursae maj. Dekl.	
1938		$10^h\ 13^m$		$+23°\ 43'$		$10^h\ 13^m$		$+43°\ 12'$	
Jan.	1	16.608	293	21.68	96	24.009	349	68.66	5
	11	16.901	254	20.72	63	24.358	303	68.61	38
	21	17.155	207	20.09	31	24.661	247	68.99	79
	31	17.362	157	19.78	1	24.908	184	69.78	114
Febr.	10	17.519	103	19.79	30	25.092	119	70.92	143
	20	24 17.622	50	20.09	55	24 25.211	54	72.35	165
März	1	17.672	1	20.64	75	25.265	9	74.00	179
	11	17.673	43	21.39	89	25.256	65	75.79	183
	21	17.630	81	22.28	96	25.191	114	77.62	179
	31	17.549	109	23.24	100	25.077	152	79.41	166
Apr.	10	17.440	129	24.24	97	24.925	180	81.07	148
	20	17.311	143	25.21	90	24.745	197	82.55	124
	30	17.168	147	26.11	79	24.548	205	83.79	95
Mai	10	17.021	144	26.90	66	24.343	203	84.74	64
	20	16.877	137	27.56	51	24.140	194	85.38	30
	30	16.740	124	28.07	35	23.946	178	85.68	3
Juni	9	16.616	107	28.42	17	23.768	157	85.65	36
	19	16.509	88	28.59	0	23.611	131	85.29	69
	29	16.421	67	28.59	18	23.480	102	84.60	99
Juli	9	16.354	43	28.41	35	23.378	70	83.61	126
	19	16.311	18	28.06	53	23.308	37	82.35	153
	29	16.293	9	27.53	70	23.271	2	80.82	176
Aug.	8	16.302	37	26.83	89	23.269	34	79.06	196
	18	16.339	66	25.94	105	23.303	73	77.10	214
	28	16.405	97	24.89	123	23.376	112	74.96	228
Sept.	7	16.502	129	23.66	141	23.488	153	72.68	238
	17	16.631	164	22.25	156	23.641	194	70.30	246
	27	16.795	198	20.69	170	23.835	236	67.84	248
Okt.	7	16.993	232	18.99	183	24.071	277	65.36	247
	17	17.225	265	17.16	193	24.348	315	62.89	239
	27	17.490	294	15.23	197	24.663	351	60.50	226
Nov.	6	17.784	319	13.26	198	25.014	379	58.24	208
	16	18.103	336	11.28	192	25.393	400	56.16	182
	26	18.439	345	9.36	181	25.793	411	54.34	150
Dez.	6	18.784	345	7.55	163	26.204	411	52.84	114
	16	19.129	333	5.92	140	26.615	396	51.70	73
	26	19.462	309	4.52	112	27.011	370	50.97	30
	36	19.771		3.40		27.381		50.67	
Mittl. Ort		14.780		37.39		21.996		88.78	
sec δ, tg δ		1.092		+0.439		1.372		+0.940	
a, *a′*		+3.3		−17.9		+3.6		−17.9	
b, *b′*		−0.03		−0.45		−0.06		−0.45	

Tag		386) μ Ursae maj. AR.		386) μ Ursae maj. Dekl.		387) 30 H. Ursae maj. AR.		387) 30 H. Ursae maj. Dekl.	
1938		$10^h\ 18^m$		$+41°\ 48'$		$10^h\ 19^m$		$+65°\ 52'$	
Jan.	1	40.592	347	23.04	16	43.76	56	27.48	84
	11	40.939	303	22.88	27	44.32	48	28.32	136
	21	41.242	249	23.15	68	44.80	40	29.68	182
	31	41.491	188	23.83	105	45.20	29	31.50	219
Febr.	10	41.679	124	24.88	135	45.49	19	33.69	247
	20	25 41.803	60	26.23	158	25 45.68	7	36.16	264
März	1	41.863	1	27.81	172	45.75	4	38.80	270
	11	41.862	56	29.53	179	45.71	14	41.50	264
	21	41.806	104	31.32	176	45.57	23	44.14	247
	31	41.70[illegible]	142	33.08	167	45.34	30	46.61	220
Apr.	10	41.560	170	34.75	149	45.04	36	48.81	186
	20	41.390	188	36.24	126	44.68	41	50.67	145
	30	41.202	197	37.50	100	44.27	42	52.12	99
Mai	10	41.005	196	38.50	69	43.85	42	53.11	51
	20	40.809	188	39.19	37	43.43	42	53.62	2
	30	40.621	174	39.56	5	43.01	39	53.64	48
Juni	9	40.447	154	39.61	28	42.62	36	53.16	96
	19	40.293	130	39.33	60	42.26	32	52.20	140
	29	40.163	102	38.73	90	41.94	26	50.80	181
Juli	9	40.061	73	37.83	117	41.68	20	48.99	218
	19	39.988	41	36.66	144	41.48	13	46.81	249
	29	39.947	7	35.22	168	41.35	7	44.32	276
Aug.	8	39.940	28	33.54	188	41.28	0	41.56	298
	18	39.968	65	31.66	206	41.28	7	38.58	312
	28	40.033	103	29.60	222	41.35	15	35.46	322
Sept.	7	40.136	143	27.38	234	41.50	22	32.24	325
	17	40.279	184	25.04	242	41.72	29	28.99	322
	27	40.463	226	22.62	247	42.01	37	25.77	313
Okt.	7	40.689	266	20.15	246	42.38	44	22.64	296
	17	40.955	305	17.69	240	42.82	50	19.68	272
	27	41.260	340	15.29	230	43.32	56	16.96	242
Nov.	6	41.600	370	12.99	212	43.88	61	14.54	205
	16	41.970	392	10.87	188	44.49	64	12.49	161
	26	42.362	403	8.99	158	45.13	65	10.88	112
Dez.	6	42.765	404	7.41	123	45.78	66	9.76	59
	16	43.169	392	6.18	83	46.44	64	9.17	3
	26	43.561	367	5.35	41	47.08	60	9.14	53
	36	43.928		4.94		47.68		9.67	
Mittl. Ort		38.645		43.04		41.09		51.17	
sec δ, tg δ		1.342		+0.895		2.447		+2.234	
a, *a′*		+3.6		−18.1		+4.3		−18.2	
b, *b′*		−0.05		−0.43		−0.13		−0.42	

Obere Kulmination Greenwich

Tag	389) μ Hydrae AR.	Δ	389) μ Hydrae Dekl.	Δ	391) *J* Carinae AR.	Δ	391) *J* Carinae Dekl.	Δ	390) 31 Leonis min. AR.	Δ	390) 31 Leonis min. Dekl.	Δ	392) Lac. α Antliae AR.	Δ	392) Lac. α Antliae Dekl.	Δ
1938	$10^h\ 23^m$		$-16°31'$		$10^h\ 23^m$		$-73°42'$		$10^h\ 24^m$		$+37°\ 0'$		$10^h\ 24^m$		$-30°45'$	
	s		"		s		"		s		"		s		"	
Jan. 1	7.281	276	13.43	258	14.05	64	47.80	310	20.179	333	73.04	43	20.645	291	5.76	293
11	7.557	238	16.01	256	14.69	52	50.90	346	20.512	292	72.61	1	20.936	250	8.69	302
21	7.795	194	18.57	247	15.21	39	54.36	372	20.804	242	72.60	38	21.186	202	11.71	304
31	7.989	147	21.04	233	15.60	26	58.08	388	21.046	185	72.98	75	21.388	150	14.75	298
Febr. 10	8.136	98	23.37	214	15.86	12	61.96	393	21.231	126	73.73	107	21.538	98	17.73	284
20	8.234	50	25.51	191	15.98	2	65.89	390	21.357	66	74.80	131	21.636	46	20.57	265
März 1	^{26}8.284	5	27.42	165	^{26}15.96	14	69.79	376	^{26}21.423	9	76.11	149	^{26}21.682	2	23.22	241
11	8.289	35	29.07	138	15.82	26	73.55	355	21.432	44	77.60	158	21.680	45	25.63	213
21	8.254	68	30.45	110	15.56	37	77.10	327	21.388	88	79.18	159	21.635	81	27.76	181
31	8.186	94	31.55	83	15.19	46	80.37	292	21.300	124	80.77	154	21.554	111	29.57	149
Apr. 10	8.092	114	32.38	56	14.73	53	83.29	251	21.176	150	82.31	141	21.443	133	31.06	114
20	7.978	126	32.94	28	14.20	59	85.80	207	21.026	168	83.72	123	21.310	147	32.20	78
30	7.852	133	33.22	2	13.61	64	87.87	157	20.858	177	84.95	101	21.163	156	32.98	43
Mai 10	7.719	134	33.24	22	12.97	67	89.44	105	20.681	177	85.96	75	21.007	158	33.41	7
20	7.585	129	33.02	46	12.30	67	90.49	51	20.504	170	86.71	47	20.849	156	33.48	29
30	7.456	121	32.56	69	11.63	67	91.00	4	20.334	157	87.18	18	20.693	149	33.19	62
Juni 9	7.335	110	31.87	88	10.96	65	90.96	57	20.177	141	87.36	11	20.544	137	32.57	95
19	7.225	96	30.99	106	10.31	61	90.39	110	20.036	120	87.25	40	20.407	123	31.62	124
29	7.129	79	29.93	121	9.70	55	89.29	159	19.916	95	86.85	67	20.284	104	30.38	150
Juli 9	7.050	59	28.72	132	9.15	48	87.70	204	19.821	69	86.18	94	20.180	83	28.88	172
19	6.991	37	27.40	138	8.67	40	85.66	242	19.752	40	85.24	119	20.097	59	27.16	187
29	6.954	13	26.02	140	8.27	29	83.24	272	19.712	10	84.05	142	20.038	30	25.29	197
Aug. 8	6.941	14	24.62	136	7.98	17	80.52	294	19.702	22	82.63	163	20.008	1	23.32	201
18	6.955	43	23.26	127	7.81	5	77.58	307	19.724	56	81.00	182	20.009	35	21.31	196
28	6.998	75	21.99	111	7.76	8	74.51	308	19.780	92	79.18	199	20.044	72	19.35	183
Sept. 7	7.073	109	20.88	88	7.84	22	71.43	297	19.872	129	77.19	212	20.116	111	17.52	163
17	7.182	144	20.00	61	8.06	36	68.46	275	20.001	167	75.07	224	20.227	152	15.89	134
27	7.326	180	19.39	28	8.42	49	65.71	242	20.168	207	72.83	232	20.379	194	14.55	98
Okt. 7	7.506	217	19.11	9	8.91	60	63.29	199	20.375	247	70.51	236	20.573	234	13.57	56
17	7.723	250	19.20	48	9.51	71	61.30	148	20.622	284	68.15	234	20.807	272	13.01	10
27	7.973	280	19.68	88	10.22	79	59.82	88	20.906	318	65.81	228	21.079	305	12.91	40
Nov. 6	8.253	305	20.56	128	11.01	85	58.94	23	21.224	348	63.53	215	21.384	330	13.31	89
16	8.558	322	21.84	164	11.86	88	58.71	43	21.572	369	61.38	197	21.714	348	14.20	139
26	8.880	329	23.48	196	12.74	88	59.14	109	21.941	382	59.41	172	22.062	356	15.59	183
Dez. 6	9.209	328	25.44	223	13.62	84	60.23	172	22.323	384	57.69	141	22.418	351	17.42	222
16	9.537	315	27.67	241	14.46	78	61.95	230	22.707	373	56.28	105	22.769	335	19.64	255
26	9.852	291	30.08	252	15.24	71	64.25	281	23.080	351	55.23	66	23.104	310	22.19	279
36	10.143		32.60		15.95		67.06		23.431		54.57		23.414		24.98	
Mittl. Ort	5.481		9.21		10.05		56.05		18.333		92.16		18.731		5.59	
sec δ, tg δ	1.043		−0.297		3.566		−3.423		1.253		+0.754		1.164		−0.595	
a, *a'*	+2.9		−18.3		+1.2		−18.3		+3.5		−18.3		+2.8		−18.3	
b, *b'*	+0.02		−0.41		+0.21		−0.41		−0.05		−0.41		+0.04		−0.41	

Scheinbare Sternörter 1938

Tag	393) s Carinae				394) 36 Ursae maj.				395) 9 H. Draconis				404) 33 Sextantis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	10h 25m		−58° 25′		10h 26m		+56° 17′		10h 29m		+76° 1′		10h 38m		−1° 24′	
	s		"		s		"		s		"		s		"	
Jan. 1	38.435	400	14.75	319	42.564	443	34.44	39	56.30	90	35.08	107	16.640	283	63.14	208
11	38.835	334	17.94	347	43.007	388	34.83	89	57.20	79	36.15	164	16.923	250	65.22	194
21	39.169	262	21.41	367	43.395	321	35.72	135	57.99	64	37.79	211	17.173	209	67.16	176
31	39.431	184	25.08	376	43.716	244	37.07	174	58.63	48	39.90	249	17.382	164	68.92	154
Febr. 10	39.615	106	28.84	375	43.960	162	38.81	205	59.11	31	42.39	277	17.546	116	70.46	129
20	$_{27}$39.721	29	32.59	366	$_{27}$44.122	77	40.86	227	$_{28}$59.42	12	45.16	294	17.662	70	71.75	103
März 1*)	39.750	44	36.25	348	44.199	4	43.13	238	59.54	6	48.10	298	$_{2}$17.732	26	72.78	77
11	39.706	109	39.73	323	44.195	79	45.51	238	59.48	24	51.08	289	17.758	15	73.55	54
21	39.597	167	42.96	292	44.116	146	47.89	228	59.24	39	53.97	269	17.743	48	74.09	31
31	39.430	214	45.88	256	43.970	200	50.17	210	58.85	52	56.66	240	17.695	76	74.40	10
Apr. 10	39.216	253	48.44	214	43.770	243	52.27	183	58.33	64	59.06	200	17.619	97	74.50	7
20	38.963	283	50.58	170	43.527	272	54.10	149	57.69	71	61.06	154	17.522	110	74.43	22
30	38.680	303	52.28	122	43.255	288	55.59	111	56.98	75	62.60	104	17.412	118	74.21	36
Mai 10	38.377	314	53.50	72	42.967	292	56.70	69	56.23	78	63.64	50	17.294	121	73.85	47
20	38.063	317	54.22	22	42.675	285	57.39	25	55.45	78	64.14	5	17.173	118	73.38	56
30	37.746	312	54.44	28	42.390	268	57.64	18	54.67	75	64.09	58	17.055	111	72.82	63
Juni 9	37.434	298	54.16	78	42.122	244	57.46	61	53.92	69	63.51	111	16.944	102	72.19	70
19	37.136	277	53.38	125	41.878	214	56.85	103	53.23	62	62.40	160	16.842	90	71.49	73
29	36.859	248	52.13	168	41.664	177	55.82	140	52.61	53	60.80	205	16.752	74	70.76	75
Juli 9	36.611	211	50.45	207	41.487	136	54.42	176	52.08	44	58.75	244	16.678	57	70.01	74
19	36.400	168	48.38	239	41.351	92	52.66	208	51.64	33	56.31	279	16.621	38	69.27	71
29	36.232	117	45.99	264	41.259	46	50.58	234	51.31	21	53.52	307	16.583	17	68.56	64
Aug. 8	36.115	60	43.35	279	41.213	3	48.24	257	51.10	9	50.45	328	16.566	7	67.92	54
18	36.055	3	40.56	286	41.216	55	45.67	276	51.01	4	47.17	343	16.573	34	67.38	41
28	36.058	70	37.70	283	41.271	108	42.91	289	51.05	17	43.74	352	16.607	62	66.97	23
Sept. 7	36.128	141	34.87	269	41.379	161	40.02	297	51.22	29	40.22	353	16.669	94	66.74	2
17	36.269	212	32.18	242	41.540	217	37.05	299	51.51	42	36.69	347	16.763	128	66.72	23
27	36.481	281	29.76	207	41.757	271	34.06	296	51.93	55	33.22	334	16.891	162	66.95	50
Okt. 7	36.762	347	27.69	163	42.028	325	31.10	288	52.48	66	29.88	313	17.053	198	67.45	78
17	37.109	407	26.06	109	42.353	377	28.22	272	53.14	77	26.75	285	17.251	232	68.23	108
27	37.516	455	24.97	50	42.730	422	25.50	248	53.91	87	23.90	250	17.483	263	69.31	136
Nov. 6	37.971	491	24.47	12	43.152	462	23.02	220	54.78	95	21.40	207	17.746	290	70.67	162
16	38.462	512	24.59	76	43.614	491	20.82	183	55.73	101	19.33	158	18.036	310	72.29	184
26	38.974	517	25.35	137	44.105	508	18.99	141	56.74	104	17.75	104	18.346	321	74.13	200
Dez. 6	39.491	504	26.72	196	44.613	510	17.58	94	57.78	104	16.71	46	18.667	323	76.13	211
16	39.995	475	28.68	249	45.123	497	16.64	44	58.82	102	16.25	15	18.990	316	78.24	214
26	40.470	431	31.17	293	45.620	468	16.20	9	59.84	95	16.40	74	19.306	296	80.38	212
36	40.901		34.10		46.088		16.29		60.79		17.14		19.602		82.50	
Mittl. Ort	35.870		20.93		40.412		57.22		52.79		59.92		14.974		54.57	
sec δ, tg δ	1.910		−1.627		1.802		+1.499		4.143		+4.021		1.000		−0.025	
a, *a′*	+2.2		−18.4		+3.9		−18.4		+5.1		−18.5		+3.1		−18.8	
b, *b′*	+0.10		− 0.40		−0.09		− 0.40		−0.25		− 0.38		0.00		− 0.35	

*) Bei Stern 404) lies März 2.

Tag	406) ϑ Argus AR.		406) ϑ Argus Dekl.		407) 42 Leonis min. AR.		407) 42 Leonis min. Dekl.		408) μ Argus AR.		408) μ Argus Dekl.		409) l Leonis AR.		409) l Leonis Dekl.	
1938	10h 40m		−64° 4′		10h 42m		+30° 59′		10h 44m		−49° 5′		10h 46m		+10° 51′	
	s		″		s		″		s		″		s		″	
Jan. 1	47.21	49	1.36	302	27.059	326	75.95	82	7.898	364	27.22	302	1.627	295	73.00	165
11	47.70	41	4.38	338	27.385	290	75.13	44	8.262	315	30.24	329	1.922	262	71.35	141
21	48.11	32	7.76	363	27.675	246	74.69	4	8.577	258	33.53	345	2.184	222	69.94	113
31	48.43	24	11.39	378	27.921	195	74.65	34	8.835	196	36.98	352	2.406	177	68.81	85
Febr. 10	48.67	15	15.17	382	28.116	140	74.99	67	9.031	132	40.50	351	2.583	129	67.96	55
20	48.82	6	18.99	379	28.256	85	75.66	95	9.163	69	44.01	341	2.712	82	67.41	27
März 2	48.88	3	22.78	365	28.341	32	76.61	118	9.232	9	47.42	324	2.794	35	67.14	2
11	[3]48.85	10	26.43	345	[3]28.373	18	77.79	132	[3]9.241	46	50.66	300	[4]2.829	7	67.12	20
21	48.75	18	29.88	317	28.355	60	79.11	140	9.195	94	53.66	270	2.822	43	67.32	38
31	48.57	23	33.05	284	28.295	95	80.51	141	9.101	134	56.36	236	2.779	72	67.70	51
Apr. 10	48.34	29	35.89	245	28.200	123	81.92	135	8.967	167	58.72	198	2.707	94	68.21	61
20	48.05	33	38.34	201	28.077	141	83.27	124	8.800	193	60.70	158	2.613	110	68.82	66
30	47.72	36	40.35	154	27.936	151	84.51	107	8.607	211	62.28	114	2.503	119	69.48	69
Mai 10	47.36	37	41.89	104	27.785	155	85.58	87	8.396	223	63.42	69	2.384	122	70.17	69
20	46.99	39	42.93	53	27.630	152	86.45	65	8.173	227	64.11	23	2.262	121	70.86	65
30	46.60	39	43.46	0	27.478	144	87.10	41	7.946	225	64.34	23	2.141	115	71.51	60
Juni 9	46.21	38	43.46	51	27.334	132	87.51	16	7.721	218	64.11	67	2.026	105	72.11	54
19	45.83	36	42.95	102	27.202	115	87.67	10	7.503	205	63.44	110	1.921	93	72.65	47
29	45.47	33	41.93	149	27.087	97	87.57	34	7.298	187	62.34	150	1.828	78	73.12	37
Juli 9	45.14	30	40.44	192	26.990	75	87.23	60	7.111	161	60.84	185	1.750	61	73.49	26
19	44.84	24	38.52	229	26.915	51	86.63	83	6.950	131	58.99	215	1.689	42	73.75	14
29	44.60	18	36.23	259	26.864	25	85.80	106	6.819	95	56.84	238	1.647	21	73.89	1
Aug. 8	44.42	12	33.64	280	26.839	3	84.74	129	6.724	54	54.46	252	1.626	3	73.90	15
18	44.30	4	30.84	293	26.842	34	83.45	149	6.670	8	51.94	259	1.629	29	73.75	32
28	44.26	4	27.91	294	26.876	66	81.96	168	6.662	44	49.35	256	1.658	57	73.43	51
Sept. 7	44.30	13	24.97	285	26.942	101	80.28	186	6.706	99	46.79	242	1.715	89	72.92	72
17	44.43	21	22.12	265	27.043	139	78.42	201	6.805	156	44.37	218	1.804	123	72.20	93
27	44.64	30	19.47	233	27.182	177	76.41	214	6.961	213	42.19	186	1.927	157	71.27	116
Okt. 7	44.94	38	17.14	191	27.359	215	74.27	224	7.174	269	40.33	144	2.084	194	70.11	138
17	45.32	46	15.23	142	27.574	253	72.03	229	7.443	321	38.89	95	2.278	228	68.73	158
27	45.78	52	13.81	84	27.827	289	69.74	229	7.764	366	37.94	40	2.506	261	67.15	176
Nov. 6	46.30	56	12.97	22	28.116	320	67.45	223	8.130	402	37.54	18	2.767	290	65.39	191
16	46.86	59	12.75	43	28.436	344	65.22	212	8.532	426	37.72	77	3.057	311	63.48	200
26	47.45	61	13.18	107	28.780	360	63.10	194	8.958	437	38.49	136	3.368	325	61.48	204
Dez. 6	48.06	59	14.25	168	29.140	365	61.16	169	9.395	434	39.85	190	3.693	330	59.44	201
16	48.65	56	15.93	225	29.505	358	59.47	138	9.829	417	41.75	238	4.023	324	57.43	191
26	49.21	52	18.18	274	29.863	341	58.09	104	10.246	386	44.13	278	4.347	307	55.52	176
36	49.73		20.92		30.204		57.05		10.632		46.91		4.654		53.76	
Mittl. Ort	44.43		9.21		25.393		93.95		5.761		32.34		0.021		85.33	
sec δ, tg δ	2.287		−2.057		1.167		+0.601		1.527		−1.154		1.018		+0.192	
a, a′	+2.1		−18.9		+3.3		−18.9		+2.6		−19.0		+3.2		−19.0	
b, b′	+0.13		− 0.34		−0.04		− 0.33		+0.07		− 0.33		−0.01		− 0.32	

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Tag	415) *i* Velorum				416) β Ursae maj.			
	AR.		Dekl.		AR.		Dekl.	
1938	$10^h\ 57^m$		$-41°\ 53'$		$10^h\ 58^m$		$+56°\ 42'$	
	s		″		s		″	
Jan. 1	20.230	347	31.03	288	8.611	471	30.77	6
11	20.577	305	33.91	311	9.082	426	30.83	60
21	20.882	257	37.02	325	9.508	365	31.43	112
31	21.139	202	40.27	329	9.873	293	32.55	157
Febr. 10	21.341	145	43.56	325	10.166	215	34.12	195
20	21.486	89	46.81	315	10.381	132	36.07	224
März 2	21.575	35	49.96	297	10.513	50	38.31	242
11	7 21.610	15	52.93	274	7 10.563	28	40.73	250
21	21.595	58	55.67	246	10.535	98	43.23	246
31	21.537	95	58.13	214	10.437	160	45.69	234
Apr. 10	21.442	126	60.27	179	10.277	210	48.03	211
20	21.316	149	62.06	141	10.067	247	50.14	181
30	21.167	166	63.47	101	9.820	273	51.95	145
Mai 10	21.001	178	64.48	61	9.547	286	53.40	105
20	20.823	183	65.09	20	9.261	290	54.45	61
30	20.640	184	65.29	22	8.971	282	55.06	16
Juni 9	20.456	179	65.07	62	8.689	267	55.22	29
19	20.277	170	64.45	100	8.422	244	54.93	73
29	20.107	156	63.45	136	8.178	216	54.20	115
Juli 9	19.951	137	62.09	167	7.962	181	53.05	154
19	19.814	114	60.42	194	7.781	143	51.51	191
29	19.700	85	58.48	214	7.638	100	49.60	223
Aug. 8	19.615	51	56.34	228	7.538	54	47.37	250
18	19.564	13	54.06	232	7.484	5	44.87	275
28	19.551	31	51.74	228	7.479	48	42.12	293
Sept. 7	19.582	78	49.46	216	7.527	103	39.19	306
17	19.660	127	47.30	194	7.630	159	36.13	314
27	19.787	179	45.36	162	7.789	218	32.99	316
Okt. 7	19.966	229	43.74	123	8.007	277	29.83	311
17	20.195	278	42.51	77	8.284	334	26.72	299
27	20.473	321	41.74	26	8.618	387	23.73	280
Nov. 6	20.794	357	41.48	28	9.005	435	20.93	254
16	21.151	382	41.76	83	9.440	473	18.39	220
26	21.533	397	42.59	137	9.913	500	16.19	178
Dez. 6	21.930	399	43.96	186	10.413	513	14.41	132
16	22.329	388	45.82	230	10.926	510	13.09	81
26	22.717	364	48.12	268	11.436	490	12.28	26
36	23.081		50.80		11.926		12.02	
Mittl. Ort	18.316		34.93		6.849		54.44	
sec δ, tg δ	1.343		−0.897		1.822		+1.523	
a, *a′*	+2.7		−19.3		+3.6		−19.3	
b, *b′*	+0.06		− 0.27		−0.10		− 0.27	

Tag	417) α Ursae maj.				418) χ Leonis			
	AR.		Dekl.		AR.		Dekl.	
1938	$10^h\ 59^m$		$+62°\ 4'$		$11^h\ 1^m$		$+7°\ 39'$	
	s		″		s		″	
Jan. 1	56.99	53	45.35	24	50.738	300	66.54	181
11	57.52	48	45.59	80	51.038	269	64.73	159
21	58.00	42	46.39	132	51.307	232	63.14	134
31	58.42	34	47.71	179	51.539	189	61.80	106
Febr. 10	58.76	24	49.50	216	51.728	143	60.74	77
20	59.00	15	51.66	244	51.871	95	59.97	49
März 2	59.15	5	54.10	262	51.966	50	59.48	22
11	7 59.20	4	56.72	267	8 52.016	9	59.26	1
21	59.16	12	59.39	262	52.025	27	59.27	21
31	59.04	20	62.01	246	51.998	58	59.48	38
Apr. 10	58.84	25	64.47	220	51.940	82	59.86	50
20	58.59	30	66.67	187	51.858	98	60.36	58
30	58.29	34	68.54	148	51.760	110	60.94	64
Mai 10	57.95	35	70.02	103	51.650	116	61.58	67
20	57.60	36	71.05	57	51.534	117	62.25	66
30	57.24	35	71.62	8	51.417	113	62.91	65
Juni 9	56.89	33	71.70	40	51.304	107	63.56	61
19	56.56	30	71.30	86	51.197	97	64.17	55
29	56.26	27	70.44	131	51.100	86	64.72	48
Juli 9	55.99	23	69.13	173	51.014	71	65.20	40
19	55.76	19	67.40	211	50.943	54	65.60	29
29	55.57	13	65.29	243	50.889	35	65.89	17
Aug. 8	55.44	8	62.86	272	50.854	12	66.06	3
18	55.36	2	60.14	296	50.842	12	66.09	14
28	55.34	4	57.18	313	50.854	40	65.95	33
Sept. 7	55.38	11	54.05	325	50.894	72	65.62	54
17	55.49	17	50.80	332	50.966	105	65.08	76
27	55.66	24	47.48	331	51.071	141	64.32	99
Okt. 7	55.90	31	44.17	322	51.212	178	63.33	124
17	56.21	38	40.95	308	51.390	214	62.09	147
27	56.59	43	37.87	286	51.604	249	60.62	168
Nov. 6	57.02	49	35.01	255	51.853	280	58.94	186
16	57.51	54	32.46	217	52.133	304	57.08	199
26	58.05	57	30.29	173	52.437	320	55.09	207
Dez. 6	58.62	58	28.56	122	52.757	328	53.02	207
16	59.20	58	27.34	68	53.085	324	50.95	202
26	59.78	56	26.66	10	53.409	310	48.93	189
36	60.34		26.56		53.719		47.04	
Mittl. Ort	55.13		69.84		49.220		77.80	
sec δ, tg δ	2.136		+1.888		1.009		+0.135	
a, *a′*	+3.7		−19.4		+3.1		−19.4	
b, *b′*	−0.12		− 0.26		−0.01		− 0.25	

Tag	420) ψ Ursae maj. AR.		Dekl.		421) β Crateris AR.		Dekl.		422) δ Leonis AR.		Dekl.		423) ϑ Leonis AR.		Dekl.	
1938	$11^h\ 6^m$		$+44°\ 49'$		$11^h\ 8^m$		$-22°\ 29'$		$11^h\ 10^m$		$+20°\ 51'$		$11^h\ 10^m$		$+15°\ 45'$	
	s		″		s		″		s		″		s		″	
Jan. 1	12.726	390	45.09	47	37.987	311	14.36	258	50.313	319	33.87	139	60.782	311	53.76	157
11	13.116	354	44.62	2	38.298	279	16.94	265	50.632	290	32.48	107	61.093	284	52.19	128
21	13.470	307	44.64	51	38.577	239	19.59	264	50.922	253	31.41	71	61.377	246	50.91	97
31	13.777	251	45.15	96	38.816	195	22.23	257	51.175	208	30.70	35	61.623	203	49.94	63
Febr. 10	14.028	189	46.11	134	39.011	148	24.80	244	51.383	160	30.35	1	61.826	156	49.31	31
20	14.217	124	47.45	167	39.159	100	27.24	226	51.543	111	30.34	30	61.982	108	49.00	0
März 2	$_{9}$14.341	61	49.12	190	$_{10}$39.259	55	29.50	203	$_{10}$51.654	62	30.64	58	$_{10}$62.090	61	49.00	27
11	14.402	0	51.02	204	39.314	12	31.53	178	51.716	17	31.22	80	62.151	18	49.27	50
21	14.402	55	53.06	208	39.326	24	33.31	152	51.733	23	32.02	96	62.169	21	49.77	68
31	14.347	101	55.14	204	39.302	56	34.83	124	51.710	57	32.98	105	62.148	53	50.45	81
Apr. 10	14.246	140	57.18	191	39.246	81	36.07	96	51.653	83	34.03	110	62.095	79	51.26	88
20	14.106	168	59.09	171	39.165	100	37.03	67	51.570	104	35.13	109	62.016	98	52.14	91
30	13.938	187	60.80	144	39.065	114	37.70	39	51.466	118	36.22	103	61.918	111	53.05	90
Mai 10	13.751	199	62.24	114	38.951	123	38.09	11	51.348	125	37.25	93	61.807	119	53.95	85
20	13.552	202	63.38	79	38.828	127	38.20	16	51.223	128	38.18	81	61.688	121	54.80	77
30	13.350	197	64.17	43	38.701	127	38.04	43	51.095	125	38.99	66	61.567	119	55.57	66
Juni 9	13.153	188	64.60	6	38.574	123	37.61	67	50.970	119	39.65	49	61.448	114	56.23	55
19	12.965	172	64.66	32	38.451	117	36.94	90	50.851	110	40.14	30	61.334	105	56.78	42
29	12.793	153	64.34	68	38.334	107	36.04	111	50.741	98	40.44	12	61.229	93	57.20	27
Juli 9	12.640	130	63.66	103	38.227	94	34.93	127	50.643	82	40.56	8	61.136	79	57.47	11
19	12.510	102	62.63	136	38.133	77	33.66	140	50.561	65	40.48	28	61.057	62	57.58	5
29	12.408	73	61.27	167	38.056	57	32.26	149	50.496	46	40.20	49	60.995	44	57.53	23
Aug. 8	12.335	40	59.60	195	37.999	32	30.77	152	50.450	22	39.71	69	60.951	21	57.30	42
18	12.295	3	57.65	219	37.967	5	29.25	148	50.428	4	39.02	90	60.930	4	56.88	61
28	12.292	35	55.46	241	37.962	28	27.77	138	50.432	33	38.12	112	60.934	32	56.27	81
Sept. 7	12.327	78	53.05	258	37.990	63	26.39	122	50.465	65	37.00	133	60.966	64	55.46	103
17	12.405	122	50.47	272	38.053	101	25.17	99	50.530	100	35.67	153	61.030	98	54.43	124
27	12.527	169	47.75	280	38.154	143	24.18	70	50.630	137	34.14	172	61.128	134	53.19	145
Okt. 7	12.696	217	44.95	284	38.297	185	23.48	35	50.767	176	32.42	190	61.262	173	51.74	166
17	12.913	264	42.11	282	38.482	225	23.13	4	50.943	215	30.52	205	61.435	211	50.08	183
27	13.177	308	39.29	272	38.707	263	23.17	46	51.158	252	28.47	215	61.646	247	48.25	198
Nov. 6	13.485	349	36.57	256	38.970	295	23.63	87	51.410	285	26.32	222	61.893	279	46.27	209
16	13.834	382	34.01	233	39.265	321	24.50	129	51.695	312	24.10	221	62.172	306	44.18	215
26	14.216	406	31.68	203	39.586	338	25.79	168	52.007	332	21.89	215	62.478	325	42.03	213
Dez. 6	14.622	418	29.65	165	39.924	344	27.47	201	52.339	342	19.74	202	62.803	335	39.90	205
16	15.040	418	28.00	122	40.268	339	29.48	227	52.681	342	17.72	182	63.138	334	37.85	192
26	15.458	404	26.78	76	40.607	323	31.75	248	53.023	329	15.90	156	63.472	322	35.93	170
36	15.862		26.02		40.930		34.23		53.352		14.34		63.794		34.23	
Mittl. Ort	11.186		66.68		36.362		13.01		48.865		49.21		59.331		67.53	
sec δ, tg δ	1.410		+0.994		1.082		−0.414		1.070		+0.381		1.039		+0.282	
a, *a′*	+3.4		−19.5		+3.0		−19.5		+3.2		−19.6		+3.2		−19.6	
b, *b′*	−0.06		− 0.23		+0.03		− 0.22		−0.02		− 0.21		−0.02		− 0.21	

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Tag	425) ν Ursae maj. AR.		425) Dekl.		426) δ Crateris AR.		426) Dekl.		427) σ Leonis AR.		427) Dekl.		428) π Centauri AR.		428) Dekl.	
1938	$11^h\ 15^m$		+33° 25′		$11^h\ 16^m$		−14° 26′		$11^h\ 17^m$		+6° 21′		$11^h\ 18^m$		−54° 8′	
	s		"		s		"		s		"		s		"	
Jan. 1	9.567	348	39.31	97	15.868	307	37.85	240	57.859	306	59.20	188	12.402	431	56.11	272
11	9.915	319	38.34	55	16.175	278	40.25	239	58.165	279	57.32	169	12.833	385	58.83	306
21	10.234	278	37.79	10	16.453	241	42.64	233	58.444	244	55.63	143	13.218	329	61.89	331
31	10.512	231	37.69	32	16.694	198	44.97	220	58.688	202	54.20	116	13.547	266	65.20	348
Febr. 10	10.743	179	38.01	70	16.892	154	47.17	202	58.890	158	53.04	88	13.813	200	68.68	355
20	10.922	123	38.71	103	17.046	108	49.19	181	59.048	112	52.16	58	14.013	132	72.23	352
März 2	11.045	69	39.74	131	17.154	63	51.00	157	59.160	67	51.58	31	14.145	67	75.75	343
11*)	11 11.114	18	41.05	150	12 17.217	23	52.57	131	12 59.227	25	51.27	6	12 14.212	5	79.18	326
21	11.132	28	42.55	161	17.240	14	53.88	107	59.252	11	51.21	15	14.217	50	82.44	303
31	11.104	68	44.16	165	17.226	44	54.95	82	59.241	42	51.36	33	14.167	100	85.47	274
Apr. 10	11.036	99	45.81	161	17.182	69	55.77	56	59.199	68	51.69	46	14.067	143	88.21	240
20	10.937	124	47.42	151	17.113	88	56.33	33	59.131	86	52.15	57	13.924	178	90.61	202
30	10.813	141	48.93	134	17.025	102	56.66	10	59.045	100	52.72	63	13.746	207	92.63	161
Mai 10	10.672	152	50.27	114	16.923	111	56.76	11	58.945	108	53.35	68	13.539	229	94.24	117
20	10.520	155	51.41	89	16.812	115	56.65	31	58.837	112	54.03	68	13.310	244	95.41	71
30	10.365	153	52.30	62	16.697	116	56.34	50	58.725	112	54.71	67	13.066	252	96.12	23
Juni 9	10.212	146	52.92	34	16.581	113	55.84	68	58.613	107	55.38	64	12.814	254	96.35	24
19	10.066	136	53.26	5	16.468	108	55.16	83	58.506	101	56.02	60	12.560	249	96.11	70
29	9.930	122	53.31	24	16.360	99	54.33	96	58.405	92	56.62	53	12.311	238	95.41	114
Juli 9	9.808	105	53.07	54	16.261	87	53.37	107	58.313	79	57.15	45	12.073	218	94.27	155
19	9.703	84	52.53	82	16.174	73	52.30	113	58.234	65	57.60	35	11.855	192	92.72	191
29	9.619	62	51.71	109	16.101	54	51.17	116	58.169	47	57.95	24	11.663	158	90.81	222
Aug. 8	9.557	35	50.62	134	16.047	33	50.01	114	58.122	26	58.19	9	11.505	116	88.59	246
18	9.522	6	49.28	159	16.014	7	48.87	108	58.096	3	58.28	7	11.389	67	86.13	260
28	9.516	26	47.69	182	16.007	22	47.79	95	58.093	24	58.21	25	11.322	12	83.53	265
Sept. 7	9.542	61	45.87	202	16.029	55	46.84	78	58.117	56	57.96	47	11.310	50	80.88	261
17	9.603	101	43.85	221	16.084	92	46.06	55	58.173	89	57.49	69	11.360	115	78.27	247
27	9.704	141	41.64	235	16.176	131	45.51	27	58.262	125	56.80	93	11.475	183	75.80	221
Okt. 7	9.845	183	39.29	246	16.307	170	45.24	5	58.387	164	55.87	118	11.658	250	73.59	186
17	10.028	226	36.83	253	16.477	210	45.29	39	58.551	202	54.69	142	11.908	313	71.73	142
27	10.254	267	34.30	253	16.687	248	45.68	76	58.753	238	53.27	164	12.221	371	70.31	91
Nov. 6	10.521	304	31.77	248	16.935	281	46.44	113	58.991	270	51.63	184	12.592	420	69.40	35
16	10.825	335	29.29	236	17.216	307	47.57	147	59.261	298	49.79	198	13.012	455	69.05	25
26	11.160	357	26.93	217	17.523	325	49.04	178	59.559	317	47.81	208	13.467	477	69.30	85
Dez. 6	11.517	369	24.76	191	17.848	333	50.82	203	59.876	327	45.73	211	13.944	484	70.15	142
16	11.886	371	22.85	159	18.181	330	52.85	222	60.203	327	43.62	207	14.428	475	71.57	196
26	12.257	360	21.26	120	18.511	318	55.07	234	60.530	316	41.55	196	14.903	450	73.53	244
36	12.617		20.06		18.829		57.41		60.846		39.59		15.353		75.97	
Mittl. Ort	8.145		58.22		14.339		34.08		56.430		69.90		10.329		63.71	
sec δ, tg δ	1.198		+0.660		1.033		−0.258		1.006		+0.112		1.707		−1.384	
a, *a′*	+3.2		−19.7		+3.0		−19.7		+3.1		−19.7		+2.7		−19.7	
b, *b′*	−0.04		− 0.19		+0.02		− 0.19		−0.01		− 0.18		+0.09		− 0.18	

*) Bei Stern 426), 427) und 428) lies März 12

Tag		429) Grb 1771 AR.		429) Grb 1771 Dekl.		433) λ Draconis AR.		433) λ Draconis Dekl.		434) ξ Hydrae AR.		434) ξ Hydrae Dekl.		436) λ Centauri AR.		436) λ Centauri Dekl.	
1938		11h 19m		+64° 39′		11h 27m		+69° 39′		11h 29m		−31° 30′		11h 32m		−62° 40′	
Jan.	1	12.93 s	59	47.29 ″	10	46.32 s	71	58.62 ″	15	58.467 s	340	49.78 ″	258	56.93 s	54	26.14 ″	249
	11	13.52	54	47.39	69	47.03	66	58.77	76	58.807	309	52.36	275	57.47	48	28.63	291
	21	14.06	48	48.08	124	47.69	58	59.53	133	59.116	269	55.11	284	57.95	42	31.54	325
	31	14.54	39	49.32	174	48.27	48	60.86	185	59.385	225	57.95	285	58.37	35	34.79	348
Febr.	10	14.93	30	51.06	216	48.75	38	62.71	228	59.610	177	60.80	280	58.72	27	38.27	363
	20	15.23	20	53.22	248	49.13	25	64.99	261	59.787	128	63.60	268	58.99	18	41.90	368
März	2	15.43	10	55.70	270	49.38	13	67.60	283	59.915	80	66.28	250	59.17	11	45.58	365
	12	12 15.53	1	58.40	279	15 49.51	0	70.43	292	15 59.995	35	68.78	228	16 59.28	3	49.23	354
	21	15.52	10	61.19	276	49.51	11	73.35	290	60.030	5	71.06	204	59.31	5	52.77	335
	31	15.42	18	63.95	264	49.40	22	76.25	276	60.025	40	73.10	176	59.26	11	56.12	310
Apr.	10	15.24	25	66.59	240	49.18	31	79.01	252	59.985	70	74.86	146	59.15	17	59.22	279
	20	14.99	32	68.99	208	48.87	39	81.53	219	59.915	94	76.32	116	58.98	21	62.01	243
	30	14.67	35	71.07	169	48.48	44	83.72	178	59.821	112	77.48	83	58.77	26	64.44	202
Mai	10	14.32	38	72.76	125	48.04	48	85.50	131	59.709	126	78.31	51	58.51	30	66.46	158
	20	13.94	40	74.01	77	47.56	51	86.81	82	59.583	135	78.82	18	58.21	32	68.04	110
	30	13.54	39	74.78	28	47.05	51	87.63	30	59.448	141	79.00	15	57.89	34	69.14	61
Juni	9	13.15	38	75.06	23	46.54	50	87.93	23	59.307	142	78.85	47	57.55	34	69.75	10
	19	12.77	37	74.83	71	46.04	48	87.70	75	59.165	139	78.38	77	57.21	35	69.85	41
	29	12.40	33	74.12	119	45.56	44	86.95	125	59.026	133	77.61	105	56.86	34	69.44	90
Juli	9	12.07	29	72.93	164	45.12	40	85.70	171	58.893	122	76.56	130	56.52	32	68.54	137
	19	11.78	24	71.29	205	44.72	34	83.99	214	58.771	108	75.26	152	56.20	28	67.17	179
	29	11.54	20	69.24	241	44.38	28	81.85	252	58.663	88	73.74	168	55.92	25	65.38	216
Aug.	8	11.34	13	66.83	272	44.10	20	79.33	285	58.575	64	72.06	178	55.67	19	63.22	247
	18	11.21	8	64.11	299	43.90	13	76.48	312	58.511	34	70.28	182	55.48	13	60.75	269
	28	11.13	1	61.12	321	43.77	5	73.36	334	58.477	1	68.46	179	55.35	6	58.06	282
Sept.	7	11.12	7	57.91	335	43.72	3	70.02	349	58.476	39	66.67	169	55.29	2	55.24	284
	17	11.19	13	54.56	343	43.75	13	66.53	357	58.515	82	64.98	149	55.31	10	52.40	275
	27	11.32	22	51.13	345	43.88	23	62.96	358	58.597	127	63.49	123	55.41	19	49.65	256
Okt.	7	11.54	28	47.68	339	44.11	32	59.38	351	58.724	175	62.26	89	55.60	28	47.09	225
	17	11.82	37	44.29	326	44.43	41	55.87	337	58.899	221	61.37	50	55.88	36	44.84	184
	27	12.19	44	41.03	304	44.84	49	52.50	313	59.120	264	60.87	7	56.24	44	43.00	136
Nov.	6	12.63	50	37.99	275	45.33	58	49.37	282	59.384	303	60.80	40	56.68	50	41.64	80
	16	13.13	55	35.24	238	45.91	65	46.55	243	59.687	334	61.20	87	57.18	55	40.84	19
	26	13.68	60	32.86	192	46.56	70	44.12	195	60.021	355	62.07	133	57.73	58	40.65	43
Dez.	6	14.28	62	30.94	141	47.26	73	42.17	142	60.376	365	63.40	174	58.31	59	41.08	104
	16	14.90	62	29.53	86	47.99	75	40.75	84	60.741	363	65.14	211	58.90	58	42.12	163
	26	15.52	61	28.67	26	48.74	73	39.91	22	61.104	350	67.25	241	59.48	56	43.75	217
	36	16.13		28.41		49.47		39.69		61.454		69.66		60.04		45.92	
Mittl. Ort		11.34		72.42		44.80		84.39		56.870		51.82		54.64		36.00	
sec δ, tg δ		2.338		+2.113		2.879		+2.700		1.173		−0.613		2.179		−1.936	
a, *a′*		+3.6		−19.7		+3.6		−19.8		+3.0		−19.9		+2.8		−19.9	
b, *b′*		−0.14		− 0.18		−0.18		− 0.14		+0.04		− 0.13		+0.13		− 0.12	

Scheinbare Sternörter 1938

Tag	437) υ Leonis AR.		437) υ Leonis Dekl.		440) 3 Draconis AR.		440) 3 Draconis Dekl.		441) χ Ursae maj. AR.		441) χ Ursae maj. Dekl.		444) β Leonis [1] AR.		444) β Leonis [1] Dekl.	
1938	11h 33m		−0° 28′		11h 39m		+67° 4′		11h 42m		+48° 6′		11h 45m		+14° 54′	
	s		″		s		″		s		″		s		″	
Jan. 1	47.810	310	61.07	208	3.22	65	52.07	8	48.261	423	60.96	72	55.172	322	54.12	174
11	48.120	286	63.15	195	3.87	61	51.99	54	48.684	394	60.24	18	55.494	299	52.38	144
21	48.406	253	65.10	176	4.48	54	52.53	113	49.078	354	60.06	35	55.793	268	50.94	112
31	48.659	213	66.86	153	5.02	46	53.66	166	49.432	303	60.41	86	56.061	230	49.82	78
Febr. 10	48.872	171	68.39	128	5.48	37	55.32	212	49.735	243	61.27	132	56.291	186	49.04	44
20	49.043	126	69.67	101	5.85	26	57.44	248	49.978	179	62.59	171	56.477	140	48.60	10
März 2	49.169	83	70.68	73	6.11	14	59.92	274	50.157	113	64.30	202	56.617	96	48.50	21
12	49.252	42	71.41	48	6.25	4	62.66	287	50.270	48	66.32	222	56.713	52	48.71	46
21	[16] 49.294	5	71.89	25	[17] 6.29	7	65.53	289	[18] 50.318	11	68.54	232	[19] 56.765	12	49.17	68
31	49.299	26	72.14	4	6.22	17	68.42	279	50.307	66	70.86	232	56.777	22	49.85	84
Apr. 10	49.273	52	72.18	14	6.05	24	71.21	258	50.241	112	73.18	224	56.755	50	50.69	94
20	49.221	72	72.04	29	5.81	32	73.79	228	50.129	149	75.42	207	56.705	74	51.63	100
30	49.149	88	71.75	41	5.49	37	76.07	191	49.980	178	77.49	181	56.631	91	52.63	100
Mai 10	49.061	99	71.34	51	5.12	41	77.98	147	49.802	199	79.30	150	56.540	104	53.63	97
20	48.962	104	70.83	58	4.71	44	79.45	99	49.603	211	80.80	115	56.436	111	54.60	90
30	48.858	107	70.25	64	4.27	45	80.44	49	49.392	217	81.95	77	56.325	115	55.50	79
Juni 9	48.751	107	69.61	67	3.82	44	80.93	3	49.175	214	82.72	36	56.210	116	56.29	68
19	48.644	103	68.94	69	3.38	42	80.90	54	48.961	207	83.08	5	56.094	112	56.97	54
29	48.541	96	68.25	68	2.96	40	80.36	104	48.754	195	83.03	46	55.982	107	57.51	39
Juli 9	48.445	87	67.57	66	2.56	36	79.32	151	48.559	177	82.57	87	55.875	97	57.90	22
19	48.358	75	66.91	61	2.20	32	77.81	195	48.382	154	81.70	125	55.778	86	58.12	4
29	48.283	59	66.30	54	1.88	27	75.86	234	48.228	129	80.45	161	55.692	71	58.16	14
Aug. 8	48.224	41	65.76	44	1.61	20	73.52	270	48.099	97	78.84	194	55.621	52	58.02	34
18	48.183	18	65.32	30	1.41	14	70.82	300	48.002	63	76.90	224	55.569	30	57.68	55
28	48.165	9	65.02	15	1.27	7	67.82	323	47.939	23	74.66	251	55.539	4	57.13	76
Sept. 7	48.174	39	64.87	5	1.20	1	64.59	341	47.916	21	72.15	273	55.535	26	56.37	99
17	48.213	73	64.92	28	1.21	9	61.18	352	47.937	68	69.42	290	55.561	61	55.38	121
27	48.286	110	65.20	54	1.30	17	57.66	357	48.005	118	66.52	303	55.622	99	54.17	144
Okt. 7	48.396	150	65.74	80	1.47	27	54.09	353	48.123	171	63.49	310	55.721	138	52.73	166
17	48.546	189	66.54	108	1.74	34	50.56	342	48.294	226	60.39	311	55.859	179	51.07	186
27	48.735	227	67.62	135	2.08	43	47.14	323	48.520	278	57.28	303	56.038	219	49.21	202
Nov. 6	48.962	262	68.97	160	2.51	50	43.91	294	48.798	327	54.25	289	56.257	256	47.19	215
16	49.224	291	70.57	181	3.01	57	40.97	258	49.125	369	51.36	266	56.513	288	45.04	222
26	49.515	313	72.38	199	3.58	62	38.39	214	49.494	403	48.70	236	56.801	313	42.82	224
Dez. 6	49.828	325	74.37	210	4.20	66	36.25	162	49.897	427	46.34	198	57.114	328	40.58	218
16	50.153	327	76.47	214	4.86	67	34.63	105	50.324	436	44.36	153	57.442	334	38.40	206
26	50.480	318	78.61	211	5.53	67	33.58	44	50.760	431	42.83	104	57.776	328	36.34	186
36	50.798		80.72		6.20		33.14		51.191		41.79		58.104		34.48	
Mittl. Ort	46.447		52.91		1.97		77.65		47.089		83.44		53.937		67.35	
sec δ, tg δ	1.000		−0.008		2.569		+2.366		1.498		1.115		1.035		+0.266	
a, *a′*	+3.1		−19.9		+3.4		−20.0		+3.2		−20.0		+3.1		−20.0	
b, *b′*	0.00		− 0.11		−0.16		− 0.09		−0.07		− 0.08		−0.02		− 0.06	

[1]) Die jährliche Parallaxe (0.″101) ist bereits berücksichtigt.

Tag	445) β Virginis¹) AR.		445) Dekl.		447) γ Ursae maj. AR.		447) Dekl.		450) o Virginis AR.		450) Dekl.		452) δ Centauri AR.		452) Dekl.	
1938	11ʰ 47ᵐ		+2° 6′		11ʰ 50ᵐ		+54° 1′		12ʰ 2ᵐ		+9° 4′		12ʰ 5ᵐ		−50° 22′	
Jan. 1	29.217 ˢ	316	41.97 ″	204	35.814 ˢ	470	58.22 ″	63	4.248 ˢ	322	26.87 ″	192	9.792 ˢ	442	29.46 ″	226
11	29.533	295	39.93	188	36.284	441	57.59	5	4.570	302	24.95	169	10.234	411	31.72	262
21	29.828	263	38.05	167	36.725	399	57.54	52	4.872	274	23.26	141	10.645	369	34.34	291
31	30.091	225	36.38	142	37.124	344	58.06	106	5.146	239	21.85	111	11.014	319	37.25	311
Febr. 10	30.316	184	34.96	115	37.468	278	59.12	154	5.385	198	20.74	78	11.333	263	40.36	323
20	30.500	141	33.81	86	37.746	208	60.66	194	5.583	155	19.96	47	11.596	205	43.59	327
März 2	30.641	97	32.95	58	37.954	134	62.60	225	5.738	112	19.49	17	11.801	147	46.86	323
12	[20] 30.738	56	32.37	32	[20] 38.088	61	64.85	245	5.850	71	19.32	11	11.948	91	50.09	313
21*)	30.794	19	32.05	9	38.149	8	67.30	256	[23] 5.921	32	19.43	35	[24] 12.039	38	53.22	296
31	30.813	13	31.96	12	38.141	71	69.86	255	5.953	2	19.78	54	12.077	11	56.18	274
Apr. 10	30.800	40	32.08	28	38.070	125	72.41	243	5.951	31	20.32	68	12.066	55	58.92	247
20	30.760	62	32.36	42	37.945	171	74.84	223	5.920	55	21.00	78	12.011	94	61.39	216
30	30.698	79	32.78	53	37.774	207	77.07	196	5.865	74	21.78	83	11.917	127	63.55	181
Mai 10	30.619	91	33.31	60	37.567	234	79.03	161	5.791	88	22.61	86	11.790	156	65.36	143
20	30.528	100	33.91	64	37.333	250	80.64	122	5.703	99	23.47	84	11.634	179	66.79	103
30	30.428	104	34.55	67	37.083	258	81.86	80	5.604	105	24.31	80	11.455	198	67.82	61
Juni 9	30.324	104	35.22	68	36.825	259	82.66	35	5.499	109	25.11	73	11.257	210	68.43	18
19	30.220	103	35.90	66	36.566	252	83.01	10	5.390	109	25.84	65	11.047	218	68.61	26
29	30.117	99	36.56	62	36.314	239	82.91	55	5.281	106	26.49	55	10.829	219	68.35	68
Juli 9	30.018	91	37.18	58	36.075	220	82.36	98	5.175	101	27.04	42	10.610	213	67.67	109
19	29.927	80	37.76	50	35.855	196	81.38	140	5.074	92	27.46	30	10.397	201	66.58	146
29	29.847	67	38.26	41	35.659	166	79.98	180	4.982	80	27.76	14	10.196	180	65.12	179
Aug. 8	29.780	49	38.67	29	35.493	131	78.18	214	4.902	64	27.90	3	10.016	152	63.33	207
18	29.731	28	38.96	15	35.362	91	76.04	246	4.838	44	27.87	20	9.864	115	61.26	227
28	29.703	2	39.11	3	35.271	47	73.58	274	4.794	19	27.67	41	9.749	69	58.99	239
Sept. 7	29.701	28	39.08	23	35.224	3	70.84	296	4.775	10	27.26	62	9.680	18	56.60	243
17	29.729	61	38.85	45	35.227	56	67.88	314	4.785	44	26.64	86	9.662	41	54.17	237
27	29.790	99	38.40	69	35.283	113	64.74	325	4.829	81	25.78	109	9.703	105	51.80	220
Okt. 7	29.889	139	37.71	95	35.396	173	61.49	330	4.910	121	24.69	133	9.808	170	49.60	194
17	30.028	179	36.76	122	35.569	234	58.19	329	5.031	162	23.36	156	9.978	236	47.66	159
27	30.207	218	35.54	148	35.803	293	54.90	319	5.193	204	21.80	178	10.214	298	46.07	117
Nov. 6	30.425	255	34.06	170	36.096	349	51.71	301	5.397	242	20.02	196	10.512	354	44.90	67
16	30.680	286	32.36	189	36.445	399	48.70	275	5.639	276	18.06	209	10.866	400	44.23	14
26	30.966	310	30.47	204	36.844	438	45.95	240	5.915	303	15.97	217	11.266	434	44.09	42
Dez. 6	31.276	324	28.43	212	37.282	466	43.55	198	6.218	321	13.80	219	11.700	454	44.51	96
16	31.600	329	26.31	214	37.748	480	41.57	150	6.539	330	11.61	213	12.154	461	45.47	149
26	31.929	323	24.17	209	38.228	478	40.07	96	6.869	326	9.48	201	12.615	451	46.96	197
36	32.252		22.08		38.706		39.11		7.195		7.47		13.066		48.93	
Mittl. Ort	27.939		50.84		34.744		81.85		3.096		37.86		8.132		37.79	
sec δ, tg δ	1.001		+0.037		1.703		+1.378		1.013		+0.160		1.568		−1.208	
a, a′	+3.1		−20.0		+3.1		−20.0		+3.1		−20.0		+3.1		−20.0	
b, b′	0.00		−0.05		−0.09		−0.04		−0.01		+0.01		+0.08		+0.02	

¹) Die jährliche Parallaxe (0″.101) ist bereits berücksichtigt.

*) Bei Stern 450) und 452) lies März 22.

Scheinbare Sternörter 1938

Tag	453) ε Corvi AR.		453) ε Corvi Dekl.		454) 4 H. Draconis AR.		454) 4 H. Draconis Dekl.		456) δ Ursae maj. AR.		456) δ Ursae maj. Dekl.		459) β Chamael. AR.		459) β Chamael. Dekl.	
1938	12h 6m		−22° 16′		12h 9m		+77° 56′		12h 12m		+57° 21′		12h 14m		−78° 57′	
	s		″		s		″		s		″		s		″	
Jan. 1	57.247	338	29.91	229	19.40	114	72.21	17	22.816	507	72.86	78	43.38	125	51.45	169
11	57.585	317	32.20	241	20.54	109	72.04	48	23.323	484	72.08	18	44.63	116	53.14	223
21	57.902	286	34.61	244	21.63	101	72.52	111	23.807	446	71.90	42	45.79	105	55.37	270
31	58.188	249	37.05	240	22.64	88	73.63	170	24.253	393	72.32	90	46.84	91	58.07	310
Febr. 10	58.437	208	39.45	231	23.52	73	75.33	220	24.646	328	73.32	152	47.75	76	61.17	342
20	58.645	164	41.76	217	24.25	55	77.53	261	24.974	255	74.84	196	48.51	59	64.59	363
März 2	58.809	121	43.93	199	24.80	36	80.14	290	25.229	178	76.80	232	49.10	41	68.22	376
12	58.930	79	45.92	177	25.16	16	83.04	308	25.407	99	79.12	256	49.51	24	71.98	381
22	59.009	41	47.69	155	25.32	4	86.12	312	25.506	24	81.68	269	49.75	6	75.79	376
31	[24] 59.050	7	49.24	130	[25] 25.28	24	89.24	305	[26] 25.530	47	84.37	272	[26] 49.81	10	79.55	364
Apr. 10	59.057	23	50.54	106	25.04	40	92.29	286	25.483	110	87.09	264	49.71	26	83.19	345
20	59.034	49	51.60	81	24.64	56	95.15	257	25.373	164	89.73	245	49.45	40	86.64	318
30	58.985	69	52.41	56	24.08	69	97.72	218	25.209	210	92.18	219	49.05	54	89.82	284
Mai 10	58.916	87	52.97	31	23.39	79	99.90	174	24.999	244	94.37	185	48.51	67	92.66	245
20	58.829	100	53.28	8	22.60	86	101.64	124	24.755	270	96.22	145	47.84	76	95.11	201
30	58.729	110	53.36	16	21.74	91	102.88	70	24.485	286	97.67	102	47.08	85	97.12	152
Juni 9	58.619	117	53.20	40	20.83	92	103.58	15	24.199	293	98.69	55	46.23	92	98.64	100
19	58.502	120	52.80	60	19.91	92	103.73	41	23.906	292	99.24	8	45.31	95	99.64	45
29	58.382	120	52.20	80	18.99	89	103.32	95	23.614	283	99.32	39	44.36	96	100.09	11
Juli 9	58.262	117	51.40	98	18.10	84	102.37	146	23.331	268	98.93	87	43.40	94	99.98	65
19	58.145	110	50.42	113	17.26	76	100.91	195	23.063	247	98.06	131	42.46	90	99.33	119
29	58.035	97	49.29	124	16.50	68	98.96	239	22.816	218	96.75	173	41.56	82	98.14	169
Aug. 8	57.938	81	48.05	130	15.82	57	96.57	278	22.598	184	95.02	213	40.74	71	96.45	213
18	57.857	58	46.75	132	15.25	46	93.79	311	22.414	144	92.89	248	40.03	57	94.32	251
28	57.799	31	45.43	127	14.79	33	90.68	339	22.270	97	90.41	277	39.46	42	91.81	281
Sept. 7	57.768	3	44.16	118	14.46	19	87.29	359	22.173	45	87.64	304	39.04	22	89.00	300
17	57.771	40	42.98	101	14.27	3	83.70	372	22.128	12	84.60	325	38.82	2	86.00	308
27	57.811	83	41.97	79	14.24	11	79.98	378	22.140	75	81.35	338	38.80	19	82.92	305
Okt. 7	57.894	128	41.18	51	14.35	28	76.20	376	22.215	140	77.97	345	38.99	40	79.87	289
17	58.022	174	40.67	17	14.63	44	72.44	365	22.355	207	74.52	345	39.39	62	76.98	263
27	58.196	219	40.50	19	15.07	60	68.79	345	22.562	275	71.07	337	40.01	81	74.35	224
Nov. 6	58.415	260	40.69	58	15.67	75	65.34	317	22.837	339	67.70	320	40.82	98	72.11	177
16	58.675	295	41.27	96	16.42	88	62.17	279	23.176	397	64.50	295	41.80	112	70.34	122
26	58.970	323	42.23	134	17.30	99	59.38	233	23.573	446	61.55	261	42.92	122	69.12	60
Dez. 6	59.293	341	43.57	167	18.29	108	57.05	179	24.019	482	58.94	217	44.14	128	68.52	3
16	59.634	348	45.24	195	19.37	114	55.26	120	24.501	506	56.77	169	45.42	130	68.55	67
26	59.982	343	47.19	218	20.51	115	54.06	56	25.007	510	55.08	113	46.72	127	69.22	130
36	60.325		49.37		21.66		53.50		25.517		53.95		47.99		70.52	
Mittl. Ort	55.936		29.95		19.10		98.58		22.055		96.91		40.02		64.99	
sec δ, tg δ	1.081		−0.410		4.794		+4.689		1.855		+1.562		5.226		−5.129	
a, *a′*	+3.1		−20.0		+2.8		−20.0		+3.0		−20.0		+3.5		−20.0	
b, *b′*	+0.03		+ 0.03		−0.31		+ 0.04		−0.10		+ 0.05		+0.34		+ 0.06	

Tag	460) η Virginis AR.		460) η Virginis Dekl.		462) α Crucis med. AR.		462) α Crucis med. Dekl.		466) 20 Comae AR.		466) 20 Comae Dekl.		465) δ Corvi AR.		465) δ Corvi Dekl.	
1938	12h 16m		−0° 19′		12h 23m		−62° 45′		12h 26m		+21° 13′		12h 26m		−16° 10′	
	s		″		s		″		s		″		s		″	
Jan. 1	45.100	323	28.08	208	10.17	59	10.56	188	37.438	340	66.39	178	40.348	335	15.26	219
11	45.423	306	30.16	195	10.76	56	12.44	235	37.778	324	64.61	143	40.683	317	17.45	223
21	45.729	279	32.11	178	11.32	51	14.79	275	38.102	300	63.18	104	41.000	292	19.68	222
31	46.008	247	33.89	155	11.83	44	17.54	307	38.402	268	62.14	64	41.292	259	21.90	214
Febr. 10	46.255	208	35.44	128	12.27	37	20.61	329	38.670	228	61.50	22	41.551	221	24.04	200
20	46.463	167	36.72	101	12.64	30	23.90	345	38.898	185	61.28	16	41.772	180	26.04	184
März 2	46.630	126	37.73	74	12.94	23	27.35	350	39.083	141	61.44	52	41.952	139	27.88	163
12	46.756	86	38.47	46	13.17	15	30.85	350	39.224	97	61.96	82	42.091	99	29.51	141
22	46.842	49	38.93	22	13.32	8	34.35	340	39.321	56	62.78	108	42.190	62	30.92	118
31	(27) 46.891	15	39.15	0	(29) 13.40	1	37.75	323	(29) 39.377	17	63.86	125	(29) 42.252	28	32.10	95
Apr. 10	46.906	14	39.15	19	13.41	6	40.98	302	39.394	15	65.11	136	42.280	2	33.05	73
20	46.892	37	38.96	33	13.35	12	44.00	274	39.379	44	66.47	141	42.278	28	33.78	51
30	46.855	58	38.63	46	13.23	17	46.74	240	39.335	68	67.88	140	42.250	50	34.29	30
Mai 10	46.797	74	38.17	56	13.06	21	49.14	203	39.267	87	69.28	133	42.200	69	34.59	11
20	46.723	87	37.61	62	12.85	26	51.17	161	39.180	102	70.61	122	42.131	83	34.70	9
30	46.636	96	36.99	66	12.59	29	52.78	115	39.078	112	71.83	106	42.048	96	34.61	26
Juni 9	46.540	102	36.33	68	12.30	32	53.93	68	38.966	120	72.89	88	41.952	105	34.35	42
19	46.438	106	35.65	68	11.98	33	54.61	18	38.846	123	73.77	68	41.847	111	33.93	58
29	46.332	106	34.97	68	11.65	35	54.79	31	38.723	124	74.45	45	41.736	115	33.35	71
Juli 9	46.226	103	34.29	64	11.30	34	54.48	79	38.599	121	74.90	22	41.621	114	32.64	83
19	46.123	97	33.65	58	10.96	33	53.69	126	38.478	115	75.12	2	41.507	111	31.81	93
29	46.026	88	33.07	51	10.63	30	52.43	168	38.363	105	75.10	28	41.396	102	30.88	98
Aug. 8	45.938	74	32.56	40	10.33	26	50.75	206	38.258	91	74.82	53	41.294	88	29.90	101
18	45.864	56	32.16	28	10.07	22	48.69	237	38.167	71	74.29	79	41.206	70	28.89	100
28	45.808	32	31.88	12	9.85	15	46.32	259	38.096	48	73.50	105	41.136	45	27.89	94
Sept. 7	45.776	3	31.76	7	9.70	8	43.73	273	38.048	18	72.45	130	41.091	16	26.95	82
17	45.773	30	31.83	28	9.62	0	41.00	276	38.030	15	71.15	155	41.075	21	26.13	66
27	45.803	67	32.11	52	9.62	9	38.24	268	38.045	54	69.60	179	41.096	60	25.47	44
Okt. 7	45.870	108	32.63	78	9.71	19	35.56	250	38.099	95	67.81	200	41.156	104	25.03	18
17	45.978	151	33.41	105	9.90	27	33.06	220	38.194	140	65.81	220	41.260	149	24.85	11
27	46.129	193	34.46	131	10.17	37	30.86	181	38.334	185	63.61	234	41.409	195	24.96	44
Nov. 6	46.322	233	35.77	156	10.54	44	29.05	133	38.519	228	61.27	245	41.604	237	25.40	79
16	46.555	268	37.33	178	10.98	50	27.72	80	38.747	267	58.82	250	41.841	274	26.19	113
26	46.823	297	39.11	195	11.48	56	26.92	21	39.014	299	56.32	246	42.115	305	27.32	143
Dez. 6	47.120	316	41.06	207	12.04	59	26.71	38	39.313	323	53.86	237	42.420	327	28.75	171
16	47.436	327	43.13	213	12.63	61	27.09	97	39.636	338	51.49	219	42.747	337	30.46	194
26	47.763	326	45.26	211	13.24	60	28.06	154	39.974	341	49.30	195	43.084	337	32.40	211
36	48.089		47.37		13.84		29.60		40.315		47.35		43.421		34.51	
Mittl. Ort	43.988		20.67		8.34		22.08		36.515		80.98		39.193		13.70	
sec δ, tg δ	1.000		−0.006		2.184		−1.942		1.073		+0.389		1.041		−0.290	
a, *a′*	+3.1		−20.0		+3.3		−19.9		+3.0		−19.9		+3.1		−19.9	
b, *b′*	0.00		+ 0.07		+0.13		+ 0.10		−0.03		+ 0.12		+0.02		+ 0.12	

Tag	470) 8 Canum ven.[1]				472) ϰ Draconis				471) β Corvi				473) 24 Comae seq.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	12h 30m		+41° 40′		12h 30m		+70° 7′		12h 31m		−23° 3′		12h 32m		+18° 42′	
	s		″		s		″		s		″		s		″	
Jan. 1	48.935	394	77.95	136	50.98	74	21.59	67	8.700	347	14.00	216	2.196	337	51.53	184
11	49.329	380	76.59	84	51.72	72	20.92	2	9.047	330	16.16	229	2.533	322	49.69	152
21	49.709	353	75.75	30	52.44	68	20.90	63	9.377	303	18.45	235	2.855	299	48.17	116
31	50.062	316	75.45	23	53.12	61	21.53	124	9.680	270	20.80	234	3.154	268	47.01	77
Febr. 10	50.378	270	75.68	74	53.73	51	22.77	179	9.950	232	23.14	226	3.422	230	46.24	37
20	50.648	218	76.42	121	54.24	41	24.56	226	10.182	190	25.40	215	3.652	188	45.87	2
März 2	50.866	163	77.63	160	54.65	30	26.82	264	10.372	148	27.55	198	3.840	145	45.89	37
12	51.029	108	79.23	191	54.95	17	29.46	289	10.520	107	29.53	179	3.985	102	46.26	68
22	$_{31}$51.137	54	81.14	213	$_{31}$55.12	6	32.35	302	$_{31}$10.627	69	31.32	158	$_{31}$4.087	61	46.94	93
31	51.191	4	83.27	225	55.18	6	35.37	304	10.696	34	32.90	135	4.148	25	47.87	112
Apr. 10	51.195	40	85.52	227	55.12	17	38.41	294	10.730	3	34.25	112	4.173	9	48.99	126
20	51.155	79	87.79	221	54.95	27	41.35	272	10.733	25	35.37	89	4.164	36	50.25	132
30	51.076	112	90.00	207	54.68	35	44.07	242	10.708	49	36.26	65	4.128	61	51.57	132
Mai 10	50.964	138	92.07	185	54.33	42	46.49	204	10.659	68	36.91	42	4.067	80	52.89	128
20	50.826	158	93.92	158	53.91	47	48.53	160	10.591	86	37.33	18	3.987	95	54.17	119
30	50.668	172	95.50	126	53.44	50	50.13	111	10.505	100	37.51	4	3.892	106	55.36	105
Juni 9	50.496	181	96.76	90	52.94	53	51.24	59	10.405	110	37.47	27	3.786	115	56.41	90
19	50.315	186	97.66	53	52.41	53	51.83	5	10.295	119	37.20	48	3.671	119	57.31	72
29	50.129	184	98.19	14	51.88	53	51.88	47	10.176	123	36.72	68	3.552	121	58.03	51
Juli 9	49.945	179	98.33	26	51.35	51	51.41	100	10.053	124	36.04	86	3.431	119	58.54	30
19	49.766	169	98.07	64	50.84	47	50.41	149	9.929	121	35.18	102	3.312	115	58.84	8
29	49.597	154	97.43	103	50.37	43	48.92	195	9.808	112	34.16	115	3.197	106	58.92	16
Aug. 8	49.443	135	96.40	139	49.94	38	46.97	238	9.696	98	33.01	122	3.091	92	58.76	40
18	49.308	110	95.01	173	49.56	32	44.59	276	9.598	80	31.79	127	2.999	74	58.36	65
28	49.198	79	93.28	205	49.24	24	41.83	309	9.518	53	30.52	126	2.925	51	57.71	90
Sept. 7	49.119	44	91.23	234	49.00	16	38.74	334	9.465	22	29.26	118	2.874	24	56.81	115
17	49.075	2	88.89	259	48.84	7	35.40	355	9.443	15	28.08	105	2.850	10	55.66	140
27	49.073	43	86.30	280	48.77	2	31.85	368	9.458	57	27.03	85	2.860	48	54.26	164
Okt. 7	49.116	93	83.50	296	48.79	12	28.17	374	9.515	104	26.18	60	2.908	90	52.62	187
17	49.209	146	80.54	307	48.91	23	24.43	371	9.619	151	25.58	30	2.998	134	50.75	207
27	49.355	199	77.47	310	49.14	34	20.72	358	9.770	199	25.28	5	3.132	179	48.68	224
Nov. 6	49.554	250	74.37	306	49.48	43	17.14	338	9.969	243	25.33	42	3.311	221	46.44	236
16	49.804	297	71.31	294	49.91	53	13.76	308	10.212	283	25.75	80	3.532	261	44.08	243
26	50.101	337	68.37	274	50.44	61	10.68	269	10.495	315	26.55	116	3.793	294	41.65	243
Dez. 6	50.438	368	65.63	245	51.05	67	7.99	221	10.810	337	27.71	150	4.087	319	39.22	236
16	50.806	388	63.18	208	51.72	72	5.78	166	11.147	348	29.21	180	4.406	333	36.86	222
26	51.194	396	61.10	164	52.44	74	4.12	105	11.495	349	31.01	203	4.739	337	34.64	199
36	51.590		59.46		53.18		3.07		11.844		33.04		5.076		32.65	
Mittl. Ort	48.200		98.40		50.86		47.05		7.520		14.90		1.294		65.19	
sec δ, tg δ	1.339		+0.890		2.942		+2.767		1.087		−0.426		1.056		+0.339	
a, *a′*	+2.9		−19.9		+2.6		−19.9		+3.2		−19.9		+3.0		−19.8	
b, *b′*	−0.06		+ 0.13		−0.18		+ 0.13		+0.03		+ 0.14		−0.02		+ 0.14	

[1]) Die jährliche Parallaxe (0″.107) ist bereits berücksichtigt.

Tag	474) α Muscae AR.		474) α Muscae Dekl.		476) γ Centauri AR.		476) γ Centauri Dekl.		478) 76 Ursae maj. AR.		478) 76 Ursae maj. Dekl.		481) β Crucis AR.		481) β Crucis Dekl.	
1938	$12^h\ 33^m$		$-68°\ 47'$		$12^h\ 38^m$		$-48°\ 37'$		$12^h\ 38^m$		$+63°\ 2'$		$12^h\ 44^m$		$-59°\ 20'$	
	s		"		s		"		s		"		s		"	
Jan. 1	29.91	73	26.95	163	6.564	446	1.85	190	52.15	58	47.09	95	6.513	553	49.40	167
11	30.64	69	28.58	215	7.010	425	3.75	229	52.73	57	46.14	32	7.066	528	51.07	213
21	31.33	64	30.73	260	7.435	392	6.04	259	53.30	54	45.82	31	7.594	489	53.20	252
31	31.97	56	33.33	296	7.827	350	8.63	282	53.84	48	46.13	93	8.083	439	55.72	285
Febr. 10	32.53	48	36.29	325	8.177	302	11.45	297	54.32	41	47.06	150	8.522	381	58.57	309
20	33.01	39	39.54	345	8.479	249	14.42	305	54.73	34	48.56	199	8.903	317	61.66	324
März 2	33.40	31	42.99	357	8.728	196	17.47	305	55.07	25	50.55	239	9.220	251	64.90	332
12	33.71	21	46.56	360	8.924	143	20.52	298	55.32	16	52.94	269	9.471	184	68.22	333
22	33.92	11	50.16	355	9.067	92	23.50	287	55.48	8	55.63	287	9.655	119	71.55	326
31*)	[31] 34.03	3	53.71	343	[1] 9.159	44	26.37	269	[2] 55.56	2	58.50	292	[3] 9.774	57	74.81	313
Apr. 10	34.06	6	57.14	324	9.203	1	29.06	247	55.54	9	61.42	288	9.831	2	77.94	294
20	34.00	13	60.38	299	9.202	41	31.53	221	55.45	17	64.30	272	9.829	56	80.88	269
30	33.87	21	63.37	268	9.161	77	33.74	191	55.28	23	67.02	246	9.773	107	83.57	239
Mai 10	33.66	27	66.05	231	9.084	110	35.65	158	55.05	28	69.48	213	9.666	154	85.96	205
20	33.39	32	68.36	190	8.974	139	37.23	121	54.77	32	71.61	174	9.512	194	88.01	166
30	33.07	38	70.26	144	8.835	163	38.44	84	54.45	34	73.35	128	9.318	229	89.67	125
Juni 9	32.69	42	71.70	96	8.672	183	39.28	44	54.11	37	74.63	80	9.089	258	90.92	80
19	32.27	44	72.66	44	8.489	198	39.72	3	53.74	38	75.43	30	8.831	281	91.72	34
29	31.83	46	73.10	7	8.291	207	39.75	38	53.36	37	75.73	21	8.550	295	92.06	13
Juli 9	31.37	46	73.03	59	8.084	210	39.37	77	52.99	36	75.52	71	8.255	300	91.93	60
19	30.91	45	72.44	109	7.874	206	38.60	115	52.63	34	74.81	120	7.955	296	91.33	105
29	30.46	41	71.35	156	7.668	194	37.45	148	52.29	32	73.61	167	7.659	280	90.28	147
Aug. 8	30.05	37	69.79	198	7.474	174	35.97	179	51.97	28	71.94	210	7.379	253	88.81	184
18	29.68	31	67.81	233	7.300	145	34.18	202	51.69	24	69.84	248	7.126	214	86.97	216
28	29.37	23	65.48	262	7.155	106	32.16	219	51.45	18	67.36	283	6.912	163	84.81	241
Sept. 7	29.14	14	62.86	281	7.049	60	29.97	227	51.27	13	64.53	312	6.749	102	82.40	256
17	29.00	4	60.05	289	6.989	5	27.70	227	51.14	6	61.41	336	6.647	31	79.84	263
27	28.96	8	57.16	286	6.984	55	25.43	216	51.08	1	58.05	353	6.616	48	77.21	259
Okt. 7	29.04	19	54.30	272	7.039	120	23.27	197	51.09	9	54.52	362	6.664	132	74.62	243
17	29.23	31	51.58	247	7.159	186	21.30	169	51.18	17	50.90	364	6.796	218	72.19	218
27	29.54	42	49.11	210	7.345	251	19.61	132	51.35	26	47.26	358	7.014	300	70.01	183
Nov. 6	29.96	52	47.01	166	7.596	311	18.29	88	51.61	33	43.68	342	7.314	376	68.18	140
16	30.48	61	45.35	112	7.907	363	17.41	39	51.94	41	40.26	318	7.690	443	66.78	90
26	31.09	67	44.23	55	8.270	405	17.02	12	52.35	47	37.08	283	8.133	496	65.88	35
Dez. 6	31.76	72	43.68	6	8.675	434	17.14	65	52.82	53	34.25	240	8.629	533	65.53	22
16	32.48	74	43.74	67	9.109	449	17.79	115	53.35	56	31.85	190	9.162	554	65.75	79
26	33.22	74	44.41	127	9.558	449	18.94	163	53.91	58	29.95	132	9.716	556	66.54	133
36	33.96		45.68		10.007		20.57		54.49		28.63		10.272		67.87	
Mittl. Ort	27.94		39.76		5.166		10.62		51.90		71.53		4.968		60.77	
sec δ, tg δ	2.765		−2.577		1.513		−1.135		2.207		+1.967		1.962		−1.688	
a, a′	+3.6		−19.8		+3.3		−19.8		+2.6		−19.8		+3.5		−19.7	
b, b′	+0.17		+ 0.15		+0.07		+ 0.17		−0.13		+ 0.17		+0.11		+ 0.19	

*) Bei Stern 476), 478) und 481) lies April 1.

Scheinbare Sternörter 1938

Tag	482) *n* Centauri AR.		482) *n* Centauri Dekl.		483) ε Ursae maj. AR.		483) ε Ursae maj. Dekl.		484) δ Virginis AR.		484) δ Virginis Dekl.		486) 8 Draconis AR.		486) 8 Draconis Dekl.	
1938	$12^h\ 49^m$		$-39°\ 50'$		$12^h\ 51^m$		$+56°\ 17'$		$12^h\ 52^m$		$+3°\ 43'$		$12^h\ 52^m$		$+65°\ 45'$	
Jan. 1	^{s}60.833	403	$''$25.46	189	^{s}18.732	494	$''$22.54	126	^{s}29.638	327	$''$53.98	205	^{s}60.73	63	$''$63.73	107
11	61.236	386	27.35	221	19.226	485	21.28	66	29.965	316	51.93	189	61.36	61	62.66	42
21	61.622	359	29.56	243	19.711	460	20.62	4	30.281	296	50.04	167	61.97	59	62.24	22
31	61.981	324	31.99	260	20.171	420	20.58	57	30.577	269	48.37	141	62.56	55	62.46	86
Febr. 10	62.305	284	34.59	269	20.591	367	21.15	115	30.846	235	46.96	111	63.11	47	63.32	145
20	62.589	238	37.28	272	20.958	304	22.30	167	31.081	198	45.85	80	63.58	39	64.77	197
März 2	62.827	192	40.00	267	21.262	236	23.97	210	31.279	160	45.05	50	63.97	30	66.74	240
12	63.019	147	42.67	259	21.498	163	26.07	244	31.439	120	44.55	21	64.27	21	69.14	271
22	63.166	102	45.26	244	21.661	91	28.51	267	31.559	84	44.34	5	64.48	10	71.85	292
Apr. 1	$_4$63.268	61	47.70	227	$_5$21.752	21	31.18	278	$_5$31.643	49	44.39	28	$_5$64.58	1	74.77	301
10	63.329	22	49.97	205	21.773	44	33.96	278	31.692	19	44.67	46	64.59	8	77.78	298
20	63.351	13	52.02	181	21.729	102	36.74	269	31.711	8	45.13	61	64.51	17	80.76	284
30	63.338	44	53.83	154	21.627	153	39.43	249	31.703	32	45.74	71	64.34	23	83.60	260
Mai 10	63.294	73	55.37	125	21.474	196	41.92	222	31.671	53	46.45	78	64.11	30	86.20	227
20	63.221	99	56.62	94	21.278	231	44.14	187	31.618	69	47.23	81	63.81	35	88.47	187
30	63.122	120	57.56	61	21.047	257	46.01	147	31.549	84	48.04	81	63.46	39	90.34	143
Juni 9	63.002	138	58.17	28	20.790	276	47.48	103	31.465	96	48.85	79	63.07	41	91.77	95
19	62.864	153	58.45	5	20.514	286	48.51	56	31.369	104	49.64	75	62.66	42	92.72	43
29	62.711	164	58.40	40	20.228	289	49.07	8	31.265	110	50.39	68	62.24	43	93.15	9
Juli 9	62.547	169	58.00	73	19.939	285	49.15	40	31.155	113	51.07	59	61.81	42	93.06	61
19	62.378	168	57.27	103	19.654	275	48.75	87	31.042	113	51.66	50	61.39	41	92.45	111
29	62.210	162	56.24	131	19.379	257	47.88	133	30.929	108	52.16	38	60.98	38	91.34	159
Aug. 8	62.048	147	54.93	154	19.122	232	46.55	176	30.821	99	52.54	25	60.60	34	89.75	204
18	61.901	125	53.39	174	18.890	200	44.79	217	30.722	85	52.79	9	60.26	30	87.71	245
28	61.776	95	51.65	185	18.690	162	42.62	252	30.637	64	52.88	9	59.96	24	85.26	281
Sept. 7	61.681	58	49.80	191	18.528	115	40.10	284	30.573	39	52.79	29	59.72	18	82.45	313
17	61.623	12	47.89	187	18.413	61	37.26	311	30.534	7	52.50	51	59.54	11	79.32	338
27	61.611	39	46.02	176	18.352	3	34.15	332	30.527	30	51.99	74	59.43	3	75.94	356
Okt. 7	61.650	95	44.26	157	18.349	62	30.83	347	30.557	70	51.25	99	59.40	5	72.38	368
17	61.745	153	42.69	130	18.411	130	27.36	353	30.627	114	50.26	124	59.45	15	68.70	372
27	61.898	210	41.39	95	18.541	200	23.83	353	30.741	159	49.02	148	59.60	24	64.98	366
Nov. 6	62.108	265	40.44	54	18.741	269	20.30	344	30.900	202	47.54	171	59.84	32	61.32	352
16	62.373	314	39.90	11	19.010	333	16.86	324	31.102	243	45.83	190	60.16	41	57.80	328
26	62.687	353	39.79	36	19.343	391	13.62	297	31.345	277	43.93	205	60.57	49	54.52	295
Dez. 6	63.040	382	40.15	82	19.734	438	10.65	259	31.622	302	41.88	213	61.06	55	51.57	252
16	63.422	399	40.97	125	20.172	471	8.06	215	31.924	320	39.75	215	61.61	59	49.05	202
26	63.821	403	42.22	166	20.643	490	5.91	160	32.244	325	37.60	210	62.20	62	47.03	144
36	64.224		43.88		21.133		4.31		32.569		35.50		62.82		45.59	
Mittl. Ort	59.621		32.10		18.471		45.57		28.764		62.00		60.83		88.13	
sec δ, tg δ	1.302		−0.834		1.802		+1.499		1.002		+0.065		2.437		+2.223	
a, *a'*	+3.3		−19.6		+2.6		−19.5		+3.1		−19.5		+2.4		−19.5	
b, *b'*	+0.05		+ 0.22		−0.10		+ 0.22		0.00		+ 0.23		−0.14		+ 0.23	

Obere Kulmination Greenwich

Tag	485) 12 Can. ven. seq. AR.		Dekl.		488) ε Virginis AR.		Dekl.	
1938	12^h 53^m		+38° 38′		12^h 59^m		+11° 17′	
	s		″		s		″	
Jan. 1	8.420	382	51.02	164	6.212	330	20.61	202
11	8.802	374	49.38	114	6.542	321	18.59	177
21	9.176	354	48.24	62	6.863	303	16.82	148
31	9.530	322	47.62	8	7.166	276	15.34	114
Febr. 10	9.852	282	47.54	45	7.442	242	14.20	79
20	10.134	235	47.99	93	7.684	206	13.41	43
März 2	10.369	186	48.92	135	7.890	167	12.98	8
12	10.555	135	50.27	171	8.057	128	12.90	23
22	10.690	85	51.98	197	8.185	89	13.13	51
Apr. 1	$_5$10.775	37	53.95	215	$_7$8.274	55	13.64	74
10	10.812	7	56.10	223	8.329	22	14.38	91
20	10.805	45	58.33	222	8.351	7	15.29	103
30	10.760	79	60.55	213	8.344	31	16.32	109
Mai 10	10.681	107	62.68	196	8.313	53	17.41	112
20	10.574	131	64.64	173	8.260	71	18.53	109
30	10.443	148	66.37	144	8.189	87	19.62	103
Juni 9	10.295	162	67.81	113	8.102	99	20.65	93
19	10.133	171	68.94	77	8.003	108	21.58	82
29	9.962	175	69.71	40	7.895	115	22.40	68
Juli 9	9.787	175	70.11	2	7.780	119	23.08	53
19	9.612	171	70.13	36	7.661	118	23.61	35
29	9.441	161	69.77	74	7.543	114	23.96	17
Aug. 8	9.280	147	69.03	111	7.429	106	24.13	3
18	9.133	126	67.92	147	7.323	92	24.10	23
28	9.007	100	66.45	180	7.231	72	23.87	46
Sept. 7	8.907	68	64.65	212	7.159	47	23.41	70
17	8.839	30	62.53	240	7.112	16	22.71	94
27	8.809	13	60.13	264	7.096	21	21.77	118
Okt. 7	8.822	62	57.49	284	7.117	62	20.59	143
17	8.884	113	54.65	298	7.179	106	19.16	166
27	8.997	166	51.67	307	7.285	151	17.50	188
Nov. 6	9.163	218	48.60	309	7.436	196	15.62	206
16	9.381	267	45.51	302	7.632	237	13.56	221
26	9.648	310	42.49	287	7.869	272	11.35	228
Dez. 6	9.958	344	39.62	263	8.141	301	9.07	230
16	10.302	368	36.99	231	8.442	320	6.77	225
26	10.670	380	34.68	190	8.762	328	4.52	212
36	11.050		32.78		9.090		2.40	
Mittl. Ort	7.861		70.10		5.433		31.08	
sec δ, tg δ	1.280		+0.800		1.020		+0.200	
a, *a′*	+2.8		−19.5		+3.0		−19.4	
b, *b′*	−0.05		+ 0.23		−0.01		+ 0.25	

Tag	490) ϑ Virginis AR.		Dekl.		492) 43 Comae¹) AR.		Dekl.	
1938	13^h 6^m		−5° 12′		13^h 8^m		+28° 10′	
	s		″		s		″	
Jan. 1	45.100	330	35.20	205	59.486	351	75.35	187
11	45.430	322	37.25	199	59.837	344	73.48	147
21	45.752	303	39.24	187	60.181	327	72.01	101
31	46.055	278	41.11	170	60.508	301	71.00	54
Febr. 10	46.333	247	42.81	148	60.809	267	70.46	6
20	46.580	211	44.29	124	61.076	228	70.40	41
März 2	46.791	174	45.53	98	61.304	185	70.81	82
12	46.965	137	46.51	72	61.489	141	71.63	119
22	47.102	101	47.23	47	61.630	98	72.82	149
Apr. 1	$_9$47.203	67	47.70	25	$_9$61.728	57	74.31	170
10	47.270	37	47.95	5	61.785	18	76.01	184
20	47.307	9	48.00	13	61.803	15	77.85	190
30	47.316	15	47.87	28	61.788	45	79.75	188
Mai 10	47.301	37	47.59	39	61.743	71	81.63	180
20	47.264	56	47.20	49	61.672	93	83.43	165
30	47.208	73	46.71	56	61.579	111	85.08	145
Juni 9	47.135	87	46.15	62	61.468	126	86.53	122
19	47.048	99	45.53	65	61.342	137	87.75	95
29	46.949	108	44.88	67	61.205	144	88.70	66
Juli 9	46.841	113	44.21	67	61.061	149	89.36	35
19	46.728	116	43.54	66	60.912	148	89.71	3
29	46.612	114	42.88	62	60.764	143	89.74	29
Aug. 8	46.498	107	42.26	56	60.621	133	89.45	61
18	46.391	94	41.70	47	60.488	119	88.84	93
28	46.297	75	41.23	35	60.369	97	87.91	124
Sept. 7	46.222	50	40.88	21	60.272	70	86.67	154
17	46.172	19	40.67	2	60.202	38	85.13	183
27	46.153	18	40.65	19	60.164	2	83.30	209
Okt. 7	46.171	60	40.84	42	60.166	46	81.21	232
17	46.231	104	41.26	69	60.212	92	78.89	252
27	46.335	151	41.95	96	60.304	142	76.37	267
Nov. 6	46.486	195	42.91	123	60.446	191	73.70	276
16	46.681	237	44.14	147	60.637	237	70.94	279
26	46.918	273	45.61	169	60.874	277	68.15	273
Dez. 6	47.191	301	47.30	187	61.151	310	65.42	259
16	47.492	319	49.17	199	61.461	333	62.83	238
26	47.811	327	51.16	204	61.794	347	60.45	208
36	48.138		53.20		62.141		58.37	
Mittl. Ort	44.248		30.73		58.922		91.04	
sec δ, tg δ	1.004		−0.091		1.135		+0.536	
a, *a′*	+3.1		−19.2		+2.9		−19.1	
b, *b′*	+0.01		+ 0.29		−0.03		+ 0.30	

¹) Die jährliche Parallaxe (0.″133) ist bereits berücksichtigt.

Scheinbare Sternörter 1938

Tag	495) γ Hydrae AR.		495) γ Hydrae Dekl.		496) ι Centauri AR.		496) ι Centauri Dekl.		497) ζ Ursae maj. pr. AR.		497) ζ Ursae maj. pr. Dekl.		498) α Virginis AR.		498) α Virginis Dekl.	
1938	13ʰ 15ᵐ		−22° 50′		13ʰ 17ᵐ		−36° 23′		13ʰ 21ᵐ		+55° 14′		13ʰ 21ᵐ		−10° 50′	
	s		″		s		″		s		″		s		″	
Jan. 1	33.709	353	40.49	188	7.189	391	2.99	169	25.908	476	33.43	162	56.217	334	20.00	197
11	34.062	345	42.37	203	7.580	382	4.68	197	26.384	477	31.81	103	56.551	328	21.97	199
21	34.407	326	44.40	211	7.962	362	6.65	218	26.861	462	30.78	41	56.879	313	23.96	193
31	34.733	301	46.51	211	8.324	333	8.83	233	27.323	432	30.37	23	57.192	289	25.89	182
Febr. 10	35.034	268	48.62	207	8.657	298	11.16	242	27.755	389	30.60	83	57.481	259	27.71	166
20	35.302	232	50.69	198	8.955	259	13.58	244	28.144	335	31.43	140	57.740	226	29.37	146
März 2	35.534	195	52.67	184	9.214	217	16.02	241	28.479	273	32.83	189	57.966	190	30.83	125
12	35.729	156	54.51	167	9.431	175	18.43	233	28.752	208	34.72	228	58.156	154	32.08	101
22	35.885	120	56.18	149	9.606	134	20.76	220	28.960	139	37.00	259	58.310	119	33.09	79
Apr. 1	36.005	84	57.67	130	9.740	95	22.96	205	29.099	71	39.59	277	58.429	85	33.88	57
11	36.089	52	58.97	110	9.835	57	25.01	187	[12] 29.170	8	42.36	284	[12] 58.514	54	34.45	37
20	[11] 36.141	22	60.07	89	[11] 9.892	22	26.88	166	29.178	52	45.20	282	58.568	26	34.82	18
30	36.163	6	60.96	69	9.914	9	28.54	142	29.126	107	48.02	268	58.594	0	35.00	1
Mai 10	36.157	30	61.65	48	9.905	40	29.96	118	29.019	153	50.70	247	58.594	24	35.01	13
20	36.127	53	62.13	29	9.865	67	31.14	91	28.866	194	53.17	216	58.570	45	34.88	25
30	36.074	73	62.42	9	9.798	91	32.05	64	28.672	227	55.33	179	58.525	64	34.63	37
Juni 9	36.001	92	62.51	10	9.707	114	32.69	35	28.445	253	57.12	138	58.461	81	34.26	46
19	35.909	106	62.41	30	9.593	133	33.04	5	28.192	272	58.50	94	58.380	96	33.80	54
29	35.803	119	62.11	47	9.460	148	33.09	25	27.920	284	59.44	46	58.284	107	33.26	61
Juli 9	35.684	128	61.64	65	9.312	158	32.84	53	27.636	288	59.90	2	58.177	116	32.65	66
19	35.556	132	60.99	80	9.154	163	32.31	82	27.348	287	59.88	51	58.061	122	31.99	69
29	35.424	132	60.19	93	8.991	163	31.49	107	27.061	277	59.37	97	57.939	122	31.30	72
Aug. 8	35.292	125	59.26	103	8.828	154	30.42	129	26.784	260	58.40	144	57.817	116	30.58	70
18	35.167	111	58.23	110	8.674	139	29.13	148	26.524	235	56.96	187	57.701	106	29.88	67
28	35.056	92	57.13	111	8.535	114	27.65	160	26.289	202	55.09	227	57.595	89	29.21	59
Sept. 7	34.964	64	56.02	108	8.421	82	26.05	167	26.087	162	52.82	262	57.506	64	28.62	49
17	34.900	30	54.94	100	8.339	42	24.38	166	25.925	114	50.20	294	57.442	33	28.13	34
27	34.870	11	53.94	86	8.297	6	22.72	158	25.811	58	47.26	321	57.409	3	27.79	16
Okt. 7	34.881	56	53.08	65	8.303	59	21.14	142	25.753	5	44.05	340	57.412	46	27.63	6
17	34.937	106	52.43	40	8.362	115	19.72	119	25.758	72	40.65	353	57.458	92	27.69	32
27	35.043	157	52.03	11	8.477	172	18.53	89	25.830	143	37.12	359	57.550	140	28.01	59
Nov. 6	35.200	205	51.92	22	8.649	228	17.64	54	25.973	213	33.53	355	57.690	186	28.60	87
16	35.405	251	52.14	56	8.877	279	17.10	14	26.186	281	29.98	342	57.876	230	29.47	116
26	35.656	289	52.70	91	9.156	322	16.96	28	26.467	344	26.56	319	58.106	268	30.63	141
Dez. 6	35.945	320	53.61	122	9.478	355	17.24	69	26.811	397	23.37	287	58.374	299	32.04	163
16	36.265	340	54.83	152	9.833	378	17.93	110	27.208	438	20.50	246	58.673	319	33.67	181
26	36.605	350	56.35	175	10.211	388	19.03	147	27.646	466	18.04	196	58.992	331	35.48	192
36	36.955		58.10		10.599		20.50		28.112		16.08		59.323		37.40	
Mittl. Ort	32.787		42.34		6.179		9.17		25.993		55.20		55.412		17.89	
sec δ, tg δ	1.085		−0.421		1.242		−0.737		1.754		+1.441		1.018		−0.191	
a, *a′*	+3.3		−19.0		+3.4		−18.9		+2.4		−18.8		+3.2		−18.8	
b, *b′*	+0.03		+ 0.32		+0.05		+ 0.33		−0.09		+ 0.35		+0.01		+ 0.35	

Tag	499) Grb 2001				500) 69 H. Urs. maj.				501) ζ Virginis				502) 17 H. Can. ven.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$13^h\ 24^m$		$+72°\ 42'$		$13^h\ 26^m$		$+60°\ 15'$		$13^h\ 31^m$		$-0°\ 16'$		$13^h\ 32^m$		$+37°\ 29'$	
	s		″		s		″		s		″		s		″	
Jan. 1	31.71	80	23.11	131	10.40	53	33.71	158	32.599	326	52.18	203	2.048	372	40.61	197
11	32.51	82	21.80	66	10.93	53	32.13	97	32.925	323	54.21	193	2.420	373	38.64	150
21	33.33	80	21.14	$\overline{1}$	11.46	52	31.16	33	33.248	310	56.14	175	2.793	362	37.14	97
31	34.13	76	21.15	68	11.98	48	30.83	33	33.558	288	57.89	154	3.155	339	36.17	42
Febr. 10	34.89	68	21.83	130	12.46	44	31.16	94	33.846	261	59.43	128	3.494	307	35.75	12
20	35.57	59	23.13	187	12.90	39	32.10	152	34.107	228	60.71	99	3.801	268	35.87	65
März 2	36.16	48	25.00	235	13.29	31	33.62	202	34.335	194	61.70	70	4.069	225	36.52	113
12	36.64	35	27.35	272	13.60	23	35.64	242	34.529	159	62.40	42	4.294	178	37.65	154
22	36.99	22	30.07	300	13.83	16	38.06	273	34.688	124	62.82	15	4.472	131	39.19	187
Apr. 1	37.21	9	33.07	313	13.99	8	40.79	290	34.812	90	62.97	$\overline{9}$	4.603	85	41.06	212
11	(13) 37.30	4	36.20	315	(14) 14.07	1	43.69	298	(15) 34.902	59	62.88	29	(15) 4.688	42	43.18	227
20	37.26	17	39.35	306	14.08	$\overline{7}$	46.67	293	34.961	31	62.59	45	4.730	1	45.45	233
30	37.09	28	42.41	285	14.01	13	49.60	279	34.992	4	62.14	59	4.731	36	47.78	230
Mai 10	36.81	38	45.26	255	13.88	18	52.39	255	34.996	19	61.55	67	4.695	69	50.08	219
20	36.43	47	47.81	218	13.70	24	54.94	223	34.977	41	60.88	73	4.626	97	52.27	200
30	35.96	53	49.99	173	13.46	27	57.17	184	34.936	61	60.15	77	4.529	122	54.27	176
Juni 9	35.43	59	51.72	126	13.19	31	59.01	141	34.875	78	59.38	77	4.407	143	56.03	146
19	34.84	62	52.98	73	12.88	33	60.42	94	34.797	94	58.61	75	4.264	159	57.49	114
29	34.22	64	53.71	20	12.55	34	61.36	45	34.703	106	57.86	71	4.105	172	58.63	77
Juli 9	33.58	65	53.91	$\overline{35}$	12.21	35	61.81	6	34.597	115	57.15	66	3.933	179	59.40	39
19	32.93	64	53.56	87	11.86	35	61.75	57	34.482	121	56.49	60	3.754	183	59.79	0
29	32.29	62	52.69	139	11.51	34	61.18	105	34.361	123	55.89	51	3.571	180	59.79	39
Aug. 8	31.67	57	51.30	187	11.17	31	60.13	153	34.238	119	55.38	40	3.391	174	59.40	78
18	31.10	52	49.43	232	10.86	29	58.60	198	34.119	110	54.98	27	3.217	159	58.62	117
28	30.58	46	47.11	272	10.57	25	56.62	238	34.009	95	54.71	13	3.058	139	57.45	153
Sept. 7	30.12	37	44.39	307	10.32	20	54.24	275	33.914	72	54.58	5	2.919	112	55.92	188
17	29.75	28	41.32	336	10.12	15	51.49	307	33.842	44	54.63	24	2.807	77	54.04	220
27	29.47	18	37.96	359	9.97	9	48.42	332	33.798	$\overline{8}$	54.87	46	2.730	36	51.84	249
Okt. 7	29.29	6	34.37	374	9.88	2	45.10	352	33.790	33	55.33	69	2.694	$\overline{10}$	49.35	273
17	29.23	$\overline{6}$	30.63	381	9.86	$\overline{6}$	41.58	365	33.823	77	56.02	95	2.704	62	46.62	294
27	29.29	18	26.82	379	9.92	14	37.93	368	33.900	123	56.97	119	2.766	116	43.68	308
Nov. 6	29.47	31	23.03	368	10.06	22	34.25	363	34.023	170	58.16	144	2.882	170	40.60	315
16	29.78	43	19.35	347	10.28	30	30.62	348	34.193	214	59.60	166	3.052	224	37.45	314
26	30.21	55	15.88	317	10.58	37	27.14	324	34.407	253	61.26	184	3.276	272	34.31	305
Dez. 6	30.76	65	12.71	275	10.95	43	23.90	289	34.660	285	63.10	197	3.548	312	31.26	286
16	31.41	73	9.96	227	11.38	48	21.01	245	34.945	308	65.07	204	3.860	343	28.40	259
26	32.14	78	7.69	169	11.86	52	18.56	194	35.253	321	67.11	205	4.203	364	25.81	223
36	32.92		6.00		12.38		16.62		35.574		69.16		4.567		23.58	
Mittl. Ort	33.05		47.02		10.75		56.10		31.925		46.65		1.803		58.01	
sec δ, tg δ	3.365		+3.213		2.016		+1.751		1.000		−0.005		1.260		+0.767	
a, *a'*	+1.5		−18.7		+2.2		−18.6		+3.1		−18.5		+2.7		−18.4	
b, *b'*	−0.20		+ 0.36		−0.11		+ 0.37		0.00		+ 0.39		−0.05		+ 0.39	

Scheinbare Sternörter 1938

Tag	504) ε Centauri				507) τ Bootis				509) η Ursae maj.				510) 89 Virginis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$13^h\ 35^m$		$-53°\ 8'$		$13^h\ 44^m$		$+17°\ 45'$		$13^h\ 45^m$		$+49°\ 36'$		$13^h\ 46^m$		$-17°\ 49'$	
	s		"		s		"		s		"		s		"	
Jan. 1	57.684	498	56.63	113	19.375	330	42.75	212	5.871	422	59.79	196	30.632	342	32.87	177
11	58.182	491	57.76	156	19.705	329	40.63	183	6.293	430	57.83	140	30.974	340	34.64	186
21	58.673	471	59.32	194	20.034	320	38.80	147	6.723	421	56.43	80	31.314	328	36.50	190
31	59.144	440	61.26	227	20.354	301	37.33	107	7.144	401	55.63	19	31.642	308	38.40	186
Febr. 10	59.584	401	63.53	251	20.655	275	36.26	66	7.545	368	55.44	43	31.950	282	40.26	178
20	59.985	355	66.04	270	20.930	244	35.60	23	7.913	325	55.87	101	32.232	251	42.04	166
März 2	60.340	304	68.74	281	21.174	208	35.37	17	8.238	275	56.88	153	32.483	217	43.70	150
12	60.644	253	71.55	287	21.382	172	35.54	55	8.513	220	58.41	198	32.700	183	45.20	132
22	60.897	201	74.42	285	21.554	134	36.09	88	8.733	163	60.39	233	32.883	148	46.52	113
Apr. 1	61.098	148	77.27	279	21.688	98	36.97	114	8.896	105	62.72	258	33.031	115	47.65	94
11	61.246	97	80.06	267	21.786	64	38.11	134	9.001	49	65.30	273	33.146	83	48.59	75
20	^{16}61.343	49	82.73	251	^{18}21.850	32	39.45	148	^{18}9.050	3	68.03	276	^{19}33.229	53	49.34	57
30	61.392	2	85.24	229	21.882	3	40.93	155	9.047	52	70.79	271	33.282	25	49.91	40
Mai 10	61.394	43	87.53	205	21.885	24	42.48	155	8.995	96	73.50	255	33.307	1	50.31	23
20	61.351	86	89.58	175	21.861	49	44.03	150	8.899	135	76.05	231	33.306	26	50.54	8
30	61.265	125	91.33	142	21.812	70	45.53	140	8.764	168	78.36	201	33.280	50	50.62	6
Juni 9	61.140	161	92.75	106	21.742	90	46.93	126	8.596	197	80.37	165	33.230	71	50.56	20
19	60.979	193	93.81	68	21.652	106	48.19	109	8.399	219	82.02	124	33.159	90	50.36	33
29	60.786	218	94.49	28	21.546	120	49.28	88	8.180	236	83.26	81	33.069	107	50.03	44
Juli 9	60.568	237	94.77	14	21.426	131	50.16	66	7.944	247	84.07	36	32.962	120	49.59	56
19	60.331	248	94.63	54	21.295	138	50.82	42	7.697	252	84.43	11	32.842	130	49.03	66
29	60.083	250	94.09	95	21.157	140	51.24	17	7.445	250	84.32	57	32.712	135	48.37	74
Aug. 8	59.833	242	93.14	131	21.017	138	51.41	10	7.195	242	83.75	103	32.577	133	47.63	80
18	59.591	223	91.83	164	20.879	130	51.31	36	6.953	225	82.72	147	32.444	125	46.83	83
28	59.368	192	90.19	192	20.749	115	50.95	64	6.728	201	81.25	188	32.319	111	46.00	83
Sept. 7	59.176	149	88.27	213	20.634	93	50.31	92	6.527	169	79.37	227	32.208	88	45.17	79
17	59.027	95	86.14	226	20.541	65	49.39	119	6.358	130	77.10	261	32.120	58	44.38	69
27	58.932	33	83.88	230	20.476	30	48.20	146	6.228	81	74.49	292	32.062	20	43.69	57
Okt. 7	58.899	37	81.58	225	20.446	10	46.74	173	6.147	27	71.57	317	32.042	22	43.12	38
17	58.936	113	79.33	209	20.456	55	45.01	197	6.120	34	68.40	335	32.064	71	42.74	16
27	59.049	189	77.24	185	20.511	104	43.04	219	6.154	97	65.05	347	32.135	120	42.58	10
Nov. 6	59.238	263	75.39	151	20.615	152	40.85	235	6.251	163	61.58	350	32.255	170	42.68	39
16	59.501	332	73.88	112	20.767	198	38.50	248	6.414	227	58.08	345	32.425	218	43.07	69
26	59.833	391	72.76	66	20.965	241	36.02	254	6.641	286	54.63	330	32.643	260	43.76	97
Dez. 6	60.224	438	72.10	17	21.206	277	33.48	252	6.927	338	51.33	304	32.903	294	44.73	125
16	60.662	471	71.93	33	21.483	304	30.96	243	7.265	380	48.29	270	33.197	320	45.98	148
26	61.133	489	72.26	83	21.787	321	28.53	226	7.645	409	45.59	226	33.517	334	47.46	168
36	61.622		73.09		22.108		26.27		8.054		43.33		33.851		49.14	
Mittl. Ort	56.670		67.52		18.943		53.90		6.030		79.40		29.919		33.72	
sec δ, tg δ	1.667		−1.334		1.050		+0.320		1.544		+1.176		1.050		−0.322	
a, a′	+3.8		−18.3		+2.9		−18.0		+2.4		−18.0		+3.3		−17.9	
b, b′	+0.08		+ 0.41		−0.02		+ 0.44		−0.07		+ 0.44		+0.02		+ 0.45	

Tag	512) ζ Centauri AR.		512) ζ Centauri Dekl.		513) η Bootis AR.		513) η Bootis Dekl.		517) 11 Bootis AR.		517) 11 Bootis Dekl.		516) τ Virginis AR.		516) τ Virginis Dekl.	
1938	$13^h\ 51^m$		−46° 58′		$13^h\ 51^m$		+18° 42′		$13^h\ 58^m$		+27° 40′		$13^h\ 58^m$		+1° 50′	
	s		″		s		″		s		″		s		″	
Jan. 1	40.409	447	53.48	109	44.336	330	16.74	215	22.080	339	53.25	219	29.875	322	31.78	202
11	40.856	446	54.57	147	44.666	331	14.59	186	22.419	344	51.06	180	30.197	324	29.76	190
21	41.302	432	56.04	181	44.997	322	12.73	149	22.763	338	49.26	137	30.521	315	27.86	172
31	41.734	407	57.85	208	45.319	306	11.24	109	23.101	322	47.89	89	30.836	299	26.14	148
Febr. 10	42.141	374	59.93	229	45.625	281	10.15	66	23.423	297	47.00	38	31.135	275	24.66	120
20	42.515	336	62.22	244	45.906	250	9.49	23	23.720	266	46.62	11	31.410	247	23.46	90
März 2	42.851	294	64.66	253	46.156	215	9.26	19	23.986	231	46.73	58	31.657	216	22.56	59
12	43.145	250	67.19	255	46.371	179	9.45	58	24.217	192	47.31	101	31.873	183	21.97	28
22	43.395	204	69.74	254	46.550	143	10.03	91	24.409	152	48.32	137	32.056	149	21.69	0
Apr. 1	43.599	159	72.28	246	46.693	107	10.94	118	24.561	114	49.69	165	32.205	117	21.69	24
11	20 43.758	115	74.74	236	20 46.800	72	12.12	140	24.675	75	51.34	187	32.322	86	21.93	46
20*)	43.873	72	77.10	220	46.872	39	13.52	153	22 24.750	40	53.21	199	22 32.408	56	22.39	62
30	43.945	31	79.30	201	46.911	10	15.05	160	24.790	7	55.20	204	32.464	28	23.01	76
Mai 10	43.976	10	81.31	179	46.921	18	16.65	161	24.797	25	57.24	201	32.492	3	23.77	84
20	43.966	47	83.10	154	46.903	43	18.26	156	24.772	52	59.25	191	32.495	22	24.61	88
30	43.919	84	84.64	126	46.860	66	19.82	145	24.720	78	61.16	175	32.473	44	25.49	90
Juni 9	43.835	118	85.90	94	46.794	87	21.27	131	24.642	101	62.91	154	32.429	65	26.39	88
19	43.717	148	86.84	61	46.707	105	22.58	113	24.541	121	64.45	130	32.364	84	27.27	84
29	43.569	174	87.45	26	46.602	119	23.71	92	24.420	137	65.75	101	32.280	101	28.11	78
Juli 9	43.395	194	87.71	10	46.483	132	24.63	69	24.283	150	66.76	70	32.179	114	28.89	70
19	43.201	208	87.61	45	46.351	140	25.32	43	24.133	159	67.46	38	32.065	125	29.59	60
29	42.993	216	87.16	81	46.211	143	25.75	18	23.974	163	67.84	5	31.940	130	30.19	49
Aug. 8	42.777	212	86.35	114	46.068	142	25.93	10	23.811	161	67.89	30	31.810	130	30.68	36
18	42.565	200	85.21	142	45.926	135	25.83	38	23.650	154	67.59	64	31.680	126	31.04	22
28	42.365	177	83.79	168	45.791	120	25.45	66	23.496	140	66.95	97	31.554	113	31.26	5
Sept. 7	42.188	142	82.11	186	45.671	100	24.79	94	23.356	119	65.98	131	31.441	94	31.31	13
17	42.046	99	80.25	198	45.571	72	23.85	123	23.237	90	64.67	163	31.347	68	31.18	33
27	41.947	46	78.27	201	45.499	38	22.62	151	23.147	54	63.04	194	31.279	34	30.85	55
Okt. 7	41.901	16	76.26	196	45.461	2	21.11	177	23.093	13	61.10	221	31.245	5	30.30	79
17	41.917	82	74.30	183	45.463	48	19.34	202	23.080	35	58.89	245	31.250	50	29.51	103
27	41.999	151	72.47	160	45.511	96	17.32	224	23.115	85	56.44	266	31.300	96	28.48	127
Nov. 6	42.150	219	70.87	130	45.607	145	15.08	241	23.200	136	53.78	280	31.396	145	27.21	150
16	42.369	282	69.57	93	45.752	192	12.67	253	23.336	187	50.98	288	31.541	190	25.71	172
26	42.651	338	68.64	52	45.944	235	10.14	259	23.523	234	48.10	288	31.731	233	23.99	188
Dez. 6	42.989	383	68.12	7	46.179	273	7.55	257	23.757	275	45.22	281	31.964	268	22.11	201
16	43.372	417	68.05	37	46.452	302	4.98	247	24.032	306	42.41	264	32.232	296	20.10	206
26	43.789	437	68.42	82	46.754	320	2.51	230	24.338	329	39.77	238	32.528	313	18.04	206
36	44.226		69.24		47.074		0.21		24.667		37.39		32.841		15.98	
Mittl. Ort	39.555		63.07		43.961		27.91		21.868		66.82		29.372		37.22	
sec δ, tg δ	1.466		−1.072		1.056		+0.339		1.129		+0.525		1.000		+0.032	
a, *a′*	+3.7		−17.7		+2.9		−17.7		+2.7		−17.4		+3.1		−17.4	
b, *b′*	+0.06		+ 0.47		−0.02		+ 0.47		−0.03		+ 0.49		0.00		+ 0.49	

*) Bei Stern 517) und 516) lies April 21.

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Tag	518) β Centauri AR.		518) β Centauri Dekl.		521) α Draconis AR.		521) α Draconis Dekl.		520) ϑ Centauri AR.		520) ϑ Centauri Dekl.		522) d Bootis AR.		522) d Bootis Dekl.	
	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ
1938	$13^h\ 59^m$		−60° 4′		$14^h\ 2^m$		+64° 39′		$14^h\ 3^m$		−36° 3′		$14^h\ 7^m$		+25° 22′	
	s		″		s		″		s		″		s		″	
Jan. 1	26.63	58	17.94	63	41.40	57	57.16	193	2.212	388	50.72	126	34.518	332	51.77	223
11	27.21	58	18.57	113	41.97	59	55.23	132	2.600	389	51.98	155	34.850	339	49.54	188
21	27.79	56	19.70	157	42.56	59	53.91	67	2.989	378	53.53	177	35.189	334	47.66	146
31	28.35	54	21.27	195	43.15	57	53.24	1	3.367	359	55.30	194	35.523	320	46.20	99
Febr. 10	28.89	50	23.22	229	43.72	53	53.25	66	3.726	333	57.24	206	35.843	297	45.21	51
20	29.39	45	25.51	255	44.25	48	53.91	129	4.059	301	59.30	212	36.140	268	44.70	2
März 2	29.84	40	28.06	275	44.73	41	55.20	185	4.360	265	61.42	212	36.408	235	44.68	44
12	30.24	34	30.81	288	45.14	34	57.05	232	4.625	228	63.54	209	36.643	198	45.12	87
22	30.58	28	33.69	295	45.48	25	59.37	269	4.853	190	65.63	201	36.841	161	45.99	124
Apr. 1	30.86	22	36.64	296	45.73	16	62.06	295	5.043	153	67.64	190	37.002	123	47.23	154
11	31.08	16	39.60	290	45.89	7	65.01	310	5.196	116	69.54	178	37.125	86	48.77	176
21	31.24	9	42.50	279	^{23}45.96	1	68.11	312	^{23}5.312	80	71.32	162	37.211	52	50.53	190
30	^{22}31.33	4	45.29	263	45.95	9	71.23	303	5.392	45	72.94	145	^{24}37.263	18	52.43	197
Mai 10	31.37	2	47.92	242	45.86	17	74.26	285	5.437	12	74.39	126	37.281	12	54.40	196
20	31.35	8	50.34	216	45.69	24	77.11	258	5.449	20	75.65	104	37.269	41	56.36	188
30	31.27	13	52.50	184	45.45	29	79.69	222	5.429	51	76.69	82	37.228	67	58.24	175
Juni 9	31.14	17	54.34	150	45.16	34	81.91	180	5.378	81	77.51	58	37.161	90	59.99	156
19	30.97	23	55.84	110	44.82	38	83.71	135	5.297	107	78.09	33	37.071	111	61.55	132
29	30.74	26	56.94	69	44.44	42	85.06	85	5.190	131	78.42	6	36.960	130	62.87	107
Juli 9	30.48	30	57.63	25	44.02	43	85.91	34	5.059	150	78.48	20	36.830	144	63.94	78
19	30.18	31	57.88	20	43.59	44	86.25	18	4.909	165	78.28	46	36.686	154	64.72	47
29	29.87	32	57.68	65	43.15	44	86.07	71	4.744	174	77.82	72	36.532	160	65.19	15
Aug. 8	29.55	32	57.03	108	42.71	42	85.36	120	4.570	175	77.10	95	36.372	161	65.34	18
18	29.23	30	55.95	148	42.29	40	84.16	169	4.395	167	76.15	116	36.211	155	65.16	51
28	28.93	27	54.47	183	41.89	37	82.47	215	4.228	151	74.99	132	36.056	142	64.65	84
Sept. 7	28.66	22	52.64	213	41.52	32	80.32	256	4.077	125	73.67	144	35.914	123	63.81	116
17	28.44	17	50.51	234	41.20	27	77.76	292	3.952	91	72.23	149	35.791	96	62.65	149
27	28.27	9	48.17	247	40.93	20	74.84	324	3.861	47	70.74	149	35.695	61	61.16	178
Okt. 7	28.18	0	45.70	250	40.73	12	71.60	348	3.814	4	69.25	140	35.634	21	59.38	207
17	28.18	8	43.20	243	40.61	3	68.12	366	3.818	60	67.85	124	35.613	26	57.31	233
27	28.26	17	40.77	225	40.58	6	64.46	376	3.878	119	66.61	103	35.639	76	54.98	254
Nov. 6	28.43	27	38.52	198	40.64	15	60.70	376	3.997	178	65.58	74	35.715	127	52.44	270
16	28.70	35	36.54	163	40.79	24	56.94	366	4.175	234	64.84	41	35.842	177	49.74	280
26	29.05	42	34.91	119	41.03	34	53.28	347	4.409	284	64.43	5	36.019	224	46.94	283
Dez. 6	29.47	49	33.72	72	41.37	42	49.81	317	4.693	326	64.38	33	36.243	265	44.11	277
16	29.96	53	33.00	20	41.79	49	46.64	277	5.019	358	64.71	70	36.508	298	41.34	264
26	30.49	56	32.80	31	42.28	54	43.87	228	5.377	377	65.41	105	36.806	321	38.70	241
36	31.05		33.11		42.82		41.59		5.754		66.46		37.127		36.29	
Mittl. Ort	25.78		30.45		42.57		78.22		1.489		57.51		34.333		64.26	
sec δ, tg δ	2.005		−1.737		2.338		+2.113		1.237		−0.728		1.107		+0.474	
a, *a′*	+4.2		−17.4		+1.6		−17.2		+3.6		−17.2		+2.7		−17.0	
b, *b′*	+0.10		+ 0.50		−0.12		+ 0.51		+0.04		+ 0.51		−0.03		+ 0.53	

Tag	524) 4 Ursae min.				523) κ Virginis				525) ι Virginis				526) α Bootis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$14^h\ 8^m$		$+77°\ 49'$		$14^h\ 9^m$		$-9°\ 59'$		$14^h\ 12^m$		$-5°\ 42'$		$14^h\ 12^m$		$+19°\ 29'$	
Jan. 1	$59^s.70$	102	$58''.20$	176	$35^s.640$	327	$10''.96$	180	$46^s.084$	322	$22''.57$	189	$50^s.199$	322	$65''.22$	227
11	60.72	107	56.44	113	35.967	330	12.76	181	46.406	326	24.46	185	50.521	327	62.95	197
21	61.79	110	55.31	47	36.297	323	14.57	176	46.732	320	26.31	176	50.848	324	60.98	162
31	62.89	108	54.84	21	36.620	308	16.33	165	47.052	305	28.07	160	51.172	310	59.36	120
Febr. 10	63.97	102	55.05	88	36.928	286	17.98	150	47.357	284	29.67	140	51.482	289	58.16	76
20	64.99	93	55.93	150	37.214	259	19.48	130	47.641	258	31.07	116	51.771	262	57.40	32
März 2	65.92	79	57.43	205	37.473	228	20.78	108	47.899	229	32.23	92	52.033	230	57.08	13
12	66.71	65	59.48	251	37.701	197	21.86	86	48.128	197	33.15	65	52.263	196	57.21	53
22	67.36	47	61.99	286	37.898	165	22.72	64	48.325	165	33.80	41	52.459	161	57.74	89
Apr. 1	67.83	29	64.85	310	38.063	134	23.36	42	48.490	134	34.21	18	52.620	126	58.63	119
11	68.12	10	67.95	322	38.197	103	23.78	22	48.624	103	34.39	2	52.746	91	59.82	141
21	68.22	8	71.17	321	38.300	73	24.00	5	48.727	74	34.37	20	52.837	58	61.23	157
30	24 68.14	26	74.38	310	25 38.373	45	24.05	10	25 48.801	46	34.17	34	25 52.895	27	62.80	167
Mai 10	67.88	42	77.48	287	38.418	18	23.95	22	48.847	20	33.83	45	52.922	2	64.47	168
20	67.46	56	80.35	257	38.436	7	23.73	33	48.867	6	33.38	53	52.920	29	66.15	164
30	66.90	69	82.92	218	38.429	32	23.40	41	48.861	31	32.85	59	52.891	55	67.79	154
Juni 9	66.21	80	85.10	173	38.397	55	22.99	48	48.830	54	32.26	63	52.836	79	69.33	140
19	65.41	88	86.83	125	38.342	77	22.51	53	48.776	75	31.63	65	52.757	100	70.73	121
29	64.53	94	88.08	73	38.265	95	21.98	57	48.701	95	30.98	65	52.657	118	71.94	100
Juli 9	63.59	98	88.81	18	38.170	112	21.41	60	48.606	111	30.33	63	52.539	133	72.94	76
19	62.61	100	88.99	35	38.058	125	20.81	62	48.495	124	29.70	61	52.406	146	73.70	50
29	61.61	99	88.64	89	37.933	134	20.19	62	48.371	132	29.09	57	52.260	152	74.20	23
Aug. 8	60.62	95	87.75	140	37.799	135	19.57	60	48.239	135	28.52	51	52.108	154	74.43	6
18	59.67	91	86.35	188	37.664	132	18.97	56	48.104	132	28.01	43	51.954	150	74.37	35
28	58.76	83	84.47	234	37.532	121	18.41	50	47.972	122	27.58	33	51.804	139	74.02	65
Sept. 7	57.93	74	82.13	274	37.411	102	17.91	41	47.850	104	27.25	20	51.665	121	73.37	94
17	57.19	62	79.39	309	37.309	76	17.50	28	47.746	78	27.05	6	51.544	94	72.43	124
27	56.57	49	76.30	338	37.233	42	17.22	13	47.668	46	26.99	13	51.450	62	71.19	152
Okt. 7	56.08	35	72.92	361	37.191	2	17.09	7	47.622	6	27.12	33	51.388	23	69.67	181
17	55.73	18	69.31	375	37.189	44	17.16	28	47.616	38	27.45	56	51.365	22	67.86	206
27	55.55	1	65.56	381	37.233	92	17.44	53	47.654	87	28.01	80	51.387	71	65.80	229
Nov. 6	55.56	18	61.75	378	37.325	142	17.97	78	47.741	135	28.81	104	51.458	120	63.51	247
16	55.74	37	57.97	365	37.467	189	18.75	103	47.876	183	29.85	128	51.578	170	61.04	261
26	56.11	54	54.32	342	37.656	232	19.78	127	48.059	226	31.13	150	51.748	216	58.43	268
Dez. 6	56.65	70	50.90	308	37.888	270	21.05	148	48.285	264	32.63	167	51.964	255	55.75	267
16	57.35	85	47.82	265	38.158	299	22.53	164	48.549	293	34.30	180	52.219	288	53.08	258
26	58.20	97	45.17	212	38.457	317	24.17	175	48.842	312	36.10	187	52.507	310	50.50	241
36	59.17		43.05		38.774		25.92		49.154		37.97		52.817		48.09	
Mittl. Ort	63.45		79.95		35.105		9.76		45.597		20.06		49.964		75.76	
sec δ, tg δ	4.747		+4.640		1.015		−0.176		1.005		−0.100		1.061		+0.354	
a, *a′*	−0.2		−16.9		+3.2		−16.9		+3.1		−16.8		+2.8		−16.8	
b, *b′*	−0.26		+ 0.53		+0.01		+ 0.54		+0.01		+ 0.55		−0.02		+ 0.55	

Scheinbare Sternörter 1938

Tag	527) λ Bootis AR.		527) λ Bootis Dekl.		531) ϑ Bootis AR.		531) ϑ Bootis Dekl.		534) ρ Bootis AR.		534) ρ Bootis Dekl.		535) γ Bootis AR.		535) γ Bootis Dekl.	
1938	$14^h\ 14^m$		$+46°\ 21'$		$14^h\ 23^m$		$+52°\ 7'$		$14^h\ 29^m$		$+30°\ 38'$		$14^h\ 29^m$		$+38°\ 34'$	
	s		"		s		"		s		"		s		"	
Jan. 1	1.367	389	62.62	224	4.576	415	53.84	230	9.458	332	20.79	235	34.712	350	28.13	238
11	1.756	403	60.38	173	4.991	434	51.54	176	9.790	344	18.44	197	35.062	365	25.75	194
21	2.159	402	58.65	116	5.425	439	49.78	117	10.134	344	16.47	151	35.427	367	23.81	142
31	2.561	390	57.49	55	5.864	429	48.61	53	10.478	334	14.96	101	35.794	358	22.39	86
Febr. 10	2.951	366	56.94	7	6.293	406	48.08	12	10.812	316	13.95	49	36.152	339	21.53	28
20	3.317	332	57.01	66	6.699	371	48.20	74	11.128	291	13.46	5	36.491	312	21.25	30
März 2	3.649	291	57.67	122	7.070	328	48.94	131	11.419	259	13.51	56	36.803	277	21.55	85
12	3.940	244	58.89	171	7.398	276	50.25	183	11.678	223	14.07	103	37.080	239	22.40	134
22	4.184	193	60.60	212	7.674	221	52.08	225	11.901	185	15.10	144	37.319	196	23.74	176
Apr. 1	4.377	142	62.72	243	7.895	164	54.33	258	12.086	147	16.54	177	37.515	153	25.50	211
11	4.519	91	65.15	264	8.059	105	56.91	280	12.233	109	18.31	202	37.668	110	27.61	235
21	4.610	41	67.79	275	8.164	48	59.71	291	12.342	71	20.33	219	37.778	67	29.96	251
30	[26] 4.651	6	70.54	275	[28] 8.212	7	62.62	291	[30] 12.413	35	22.52	227	[30] 37.845	26	32.47	257
Mai 10	4.645	50	73.29	267	8.205	59	65.53	282	12.448	1	24.79	225	37.871	13	35.04	253
20	4.595	90	75.96	248	8.146	106	68.35	263	12.449	32	27.04	218	37.858	49	37.57	242
30	4.505	127	78.44	224	8.040	149	70.98	237	12.417	62	29.22	203	37.809	82	39.99	222
Juni 9	4.378	158	80.68	192	7.891	187	73.35	203	12.355	89	31.25	182	37.727	113	42.21	197
19	4.220	186	82.60	156	7.704	220	75.38	164	12.266	115	33.07	156	37.614	141	44.18	166
29	4.034	209	84.16	116	7.484	247	77.02	121	12.151	137	34.63	127	37.473	165	45.84	132
Juli 9	3.825	226	85.32	72	7.237	267	78.23	76	12.014	155	35.90	95	37.308	183	47.16	93
19	3.599	238	86.04	28	6.970	282	78.99	29	11.859	170	36.85	59	37.125	199	48.09	54
29	3.361	243	86.32	18	6.688	289	79.28	20	11.689	179	37.44	23	36.926	207	48.63	12
Aug. 8	3.118	242	86.14	64	6.399	287	79.08	68	11.510	183	37.67	14	36.719	211	48.75	30
18	2.876	233	85.50	108	6.112	279	78.40	116	11.327	180	37.53	51	36.508	206	48.45	72
28	2.643	215	84.42	151	5.833	261	77.24	161	11.147	169	37.02	88	36.302	195	47.73	114
Sept. 7	2.428	190	82.91	192	5.572	233	75.63	204	10.978	152	36.14	124	36.107	175	46.59	153
17	2.238	157	80.99	230	5.339	197	73.59	243	10.826	126	34.90	160	35.932	146	45.06	191
27	2.081	114	78.69	264	5.142	151	71.16	279	10.700	93	33.30	193	35.786	111	43.15	225
Okt. 7	1.967	64	76.05	294	4.991	97	68.37	309	10.607	51	31.37	224	35.675	67	40.90	257
17	1.903	8	73.11	318	4.894	35	65.28	334	10.556	5	29.13	250	35.608	16	38.33	285
27	1.895	53	69.93	335	4.859	32	61.94	351	10.551	47	26.63	274	35.592	39	35.48	305
Nov. 6	1.948	117	66.58	345	4.891	102	58.43	360	10.598	100	23.89	290	35.631	97	32.43	320
16	2.065	180	63.13	346	4.993	172	54.83	360	10.698	154	20.99	300	35.728	154	29.23	327
26	2.245	239	59.67	337	5.165	240	51.23	350	10.852	205	17.99	302	35.882	209	25.96	325
Dez. 6	2.484	294	56.30	318	5.405	301	47.73	331	11.057	250	14.97	297	36.091	260	22.71	314
16	2.778	339	53.12	291	5.706	354	44.42	300	11.307	289	12.00	280	36.351	302	19.57	293
26	3.117	372	50.21	252	6.060	395	41.42	259	11.596	317	9.20	255	36.653	334	16.64	262
36	3.489		47.69		6.455		38.83		11.913		6.65		36.987		14.02	
Mittl. Ort	1.693		80.01		5.205		71.78		9.503		33.66		34.936		42.90	
sec δ, tg δ	1.449		+1.049		1.629		+1.286		1.162		+0.592		1.279		+0.798	
a, *a′*	+2.3		−16.7		+2.1		−16.3		+2.6		−15.9		+2.4		−15.9	
b, *b′*	−0.06		+ 0.55		−0.07		+ 0.58		−0.03		+ 0.61		−0.04		+ 0.61	

Tag	537) η Centauri AR.	Diff.	537) η Centauri Dekl.	Diff.	538) α Centauri¹) AR.	Diff.	538) α Centauri¹) Dekl.	Diff.	543) ζ Bootis med. AR.	Diff.	543) ζ Bootis med. Dekl.	Diff.	545) μ Virginis AR.	Diff.	545) μ Virginis Dekl.	Diff.
1938	14ʰ 31ᵐ		−41° 53′		14ʰ 35ᵐ		−60° 34′		14ʰ 38ᵐ		+13° 59′		14ʰ 39ᵐ		−5° 23′	
	s		″		s		″		s		″		s		″	
Jan. 1	34.184	409	3.37	78	23.08	56	40.11	22	11.390	310	27.67	221	47.729	314	25.15	181
11	34.593	416	4.15	112	23.64	58	40.33	69	11.700	320	25.46	198	48.043	322	26.96	178
21	35.009	412	5.27	141	24.22	58	41.02	114	12.020	320	23.48	168	48.365	321	28.74	168
31	35.421	399	6.68	165	24.80	56	42.16	155	12.340	311	21.80	132	48.686	311	30.42	153
Febr. 10	35.820	376	8.33	183	25.36	52	43.71	190	12.651	295	20.48	93	48.997	295	31.95	133
20	36.196	348	10.16	196	25.88	49	45.61	220	12.946	273	19.55	52	49.292	273	33.28	109
März 2	36.544	315	12.12	205	26.37	43	47.81	242	13.219	245	19.03	10	49.565	247	34.37	84
12	36.859	278	14.17	209	26.80	38	50.23	259	13.464	216	18.93	28	49.812	218	35.21	59
22	37.137	241	16.26	208	27.18	33	52.82	271	13.680	184	19.21	65	50.030	189	35.80	33
Apr. 1	37.378	202	18.34	204	27.51	27	55.53	276	13.864	152	19.86	95	50.219	160	36.13	10
11	37.580	164	20.38	196	27.78	20	58.29	276	14.016	121	20.81	120	50.379	130	36.23	10
21	37.744	124	22.34	186	27.98	14	61.05	271	14.137	89	22.01	138	50.509	101	36.13	27
30*)	37.868	86	24.20	172	28.12	8	63.76	259	14.226	58	23.39	151	50.610	72	35.86	42
Mai 10	37.954	47	25.92	157	28.20	2	66.35	243	14.284	29	24.90	157	50.682	44	35.44	53
20	38.001	9	27.49	139	28.22	4	68.78	223	14.313	0	26.47	156	50.726	17	34.91	60
30	38.010	28	28.88	117	28.18	10	71.01	197	14.313	27	28.03	151	50.743	10	34.31	65
Juni 9	37.982	65	30.05	94	28.08	16	72.98	166	14.286	52	29.54	142	50.733	37	33.66	67
19	37.917	99	30.99	68	27.92	21	74.64	132	14.234	77	30.96	128	50.696	61	32.99	69
29	37.818	131	31.67	41	27.71	25	75.96	94	14.157	100	32.24	111	50.635	84	32.30	67
Juli 9	37.687	158	32.08	12	27.46	30	76.90	53	14.057	118	33.35	91	50.551	105	31.63	64
19	37.529	180	32.20	19	27.16	33	77.43	9	13.939	135	34.26	71	50.446	122	30.99	61
29	37.349	195	32.01	48	26.83	34	77.52	34	13.804	146	34.97	47	50.324	134	30.38	56
Aug. 8	37.154	201	31.53	77	26.49	35	77.18	77	13.658	152	35.44	23	50.190	142	29.82	49
18	36.953	200	30.76	104	26.14	34	76.41	119	13.506	153	35.67	3	50.048	143	29.33	41
28	36.753	187	29.72	127	25.80	32	75.22	157	13.353	145	35.64	29	49.905	136	28.92	32
Sept. 7	36.566	163	28.45	146	25.48	28	73.65	190	13.208	131	35.35	56	49.769	122	28.60	19
17	36.403	130	26.99	161	25.20	22	71.75	217	13.077	109	34.79	84	49.647	100	28.41	4
27	36.273	85	25.38	167	24.98	15	69.58	236	12.968	78	33.95	111	49.547	70	28.37	12
Okt. 7	36.188	33	23.71	166	24.83	8	67.22	245	12.890	41	32.84	138	49.477	32	28.49	32
17	36.155	27	22.05	159	24.75	2	64.77	245	12.849	2	31.46	165	49.445	12	28.81	53
27	36.182	91	20.46	143	24.77	11	62.32	235	12.851	49	29.81	189	49.457	60	29.34	76
Nov. 6	36.273	156	19.03	121	24.88	20	59.97	214	12.900	99	27.92	210	49.517	109	30.10	99
16	36.429	219	17.82	91	25.08	30	57.83	186	12.999	148	25.82	227	49.626	158	31.09	122
26	36.648	276	16.91	57	25.38	37	55.97	148	13.147	195	23.55	239	49.784	203	32.31	142
Dez. 6	36.924	326	16.34	21	25.75	45	54.49	106	13.342	236	21.16	244	49.987	244	33.73	160
16	37.250	366	16.13	17	26.20	51	53.43	58	13.578	271	18.72	241	50.231	277	35.33	173
26	37.616	393	16.30	55	26.71	55	52.85	9	13.849	297	16.31	231	50.508	301	37.06	179
36	38.009		16.85		27.26		52.76		14.146		14.00		50.809		38.85	
Mittl. Ort	33.618		11.95		22.48		52.83		11.230		35.46		47.386		23.30	
sec δ, tg δ	1.343		−0.897		2.036		−1.773		1.031		+0.249		1.004		−0.094	
a, *a′*	+3.8		−15.8		+4.6		−15.6		+2.9		−15.5		+3.2		−15.4	
b, *b′*	+0.05		+ 0.61		+0.09		+ 0.63		−0.01		+ 0.64		0.00		+ 0.64	

¹) Ort des hellen Sterns; die jährliche Parallaxe (0″758) ist bereits berücksichtigt.

*) Bei Stern 538), 543) und 545) lies Mai 1.

Scheinbare Sternörter 1938

Tag	542) α Apodis				547) 109 Virginis				548) α Librae				549) Grb 2164			
	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ	AR.	Δ	Dekl.	Δ
1938	14h 40m		−78° 46′		14h 43m		+2° 8′		14h 47m		−15° 47′		14h 49m		+59° 32′	
	s		"		s		"		s		"		s		"	
Jan. 1	3.48	130	47.74	49	7.009	308	66.53	197	27.016	323	5.68	148	50.470	450	25.66	248
11	4.78	135	47.25	7	7.317	317	64.56	187	27.339	332	7.16	155	50.920	485	23.18	194
21	6.13	136	47.32	63	7.634	317	62.69	169	27.671	332	8.71	158	51.405	503	21.24	132
31	7.49	134	47.95	116	7.951	308	61.00	146	28.003	323	10.29	154	51.908	503	19.92	67
Febr. 10	8.83	128	49.11	164	8.259	293	59.54	118	28.326	307	11.83	145	52.411	487	19.25	0
20	10.11	121	50.75	207	8.552	271	58.36	87	28.633	286	13.28	132	52.898	456	19.25	66
März 2	11.32	110	52.82	246	8.823	246	57.49	55	28.919	261	14.60	118	53.354	413	19.91	129
12	12.42	98	55.28	276	9.069	218	56.94	24	29.180	233	15.78	100	53.767	358	21.20	184
22	13.40	84	58.04	301	9.287	188	56.70	6	29.413	204	16.78	81	54.125	297	23.04	231
Apr. 1	14.24	70	61.05	318	9.475	159	56.76	32	29.617	175	17.59	64	54.422	229	25.35	269
11	14.94	54	64.23	327	9.634	129	57.08	55	29.792	145	18.23	47	54.651	158	28.04	295
21	15.48	37	67.50	332	9.763	99	57.63	74	29.937	115	18.70	32	54.809	88	30.99	310
Mai 1	15.85	21	70.82	328	9.862	70	58.37	87	30.052	86	19.02	18	54.897	18	34.09	314
10	[2]16.06	4	74.10	317	[3]9.932	42	59.24	96	[4]30.138	56	19.20	6	[5]54.915	49	37.23	307
20	16.10	13	77.27	299	9.974	15	60.20	101	30.194	28	19.26	5	54.866	112	40.30	292
30	15.97	29	80.26	275	9.989	12	61.21	102	30.222	1	19.21	14	54.754	171	43.22	265
Juni 9	15.68	45	83.01	243	9.977	39	62.23	100	30.221	29	19.07	23	54.583	223	45.87	234
19	15.23	59	85.44	206	9.938	63	63.23	95	30.192	57	18.84	30	54.360	270	48.21	194
29	14.64	72	87.50	163	9.875	86	64.18	88	30.135	82	18.54	37	54.090	309	50.15	150
Juli 9	13.92	82	89.13	115	9.789	107	65.06	78	30.053	105	18.17	44	53.781	340	51.65	104
19	13.10	89	90.28	64	9.682	124	65.84	68	29.948	125	17.73	50	53.441	364	52.69	54
29	12.21	95	90.92	10	9.558	136	66.52	55	29.823	139	17.23	54	53.077	378	53.23	2
Aug. 8	11.26	96	91.02	45	9.422	144	67.07	41	29.684	149	16.69	58	52.699	383	53.25	48
18	10.30	94	90.57	98	9.278	146	67.48	26	29.535	150	16.11	59	52.316	377	52.77	99
28	9.36	87	89.59	150	9.132	139	67.74	10	29.385	145	15.52	60	51.939	361	51.78	147
Sept. 7	8.49	78	88.09	196	8.993	126	67.84	9	29.240	131	14.92	57	51.578	334	50.31	194
17	7.71	65	86.13	237	8.867	105	67.75	29	29.109	108	14.35	51	51.244	295	48.37	237
27	7.06	47	83.76	268	8.762	75	67.46	50	29.001	77	13.84	41	50.949	245	46.00	276
Okt. 7	6.59	29	81.08	290	8.687	38	66.96	73	28.924	38	13.43	28	50.704	184	43.24	310
17	6.30	7	78.18	302	8.649	4	66.23	96	28.886	8	13.15	11	50.520	114	40.14	337
27	6.23	16	75.16	300	8.653	52	65.27	120	28.894	57	13.04	10	50.406	36	36.77	357
Nov. 6	6.39	38	72.16	288	8.705	101	64.07	143	28.951	108	13.14	32	50.370	46	33.20	369
16	6.77	60	69.28	265	8.806	149	62.64	163	29.059	159	13.46	57	50.416	131	29.51	373
26	7.37	81	66.63	231	8.955	195	61.01	181	29.218	208	14.03	81	50.547	214	25.78	364
Dez. 6	8.18	98	64.32	188	9.150	236	59.20	194	29.426	249	14.84	104	50.761	293	22.14	347
16	9.16	113	62.44	139	9.386	269	57.26	200	29.675	284	15.88	124	51.054	363	18.67	317
26	10.29	124	61.05	84	9.655	294	55.26	201	29.959	309	17.12	140	51.417	421	15.50	278
36	11.53		60.21		9.949		53.25		30.268		18.52		51.838		12.72	
Mittl. Ort	3.51		62.65		6.748		70.59		26.641		7.17		51.812		42.87	
sec δ, tg δ	5.141		−5.043		1.001		+0.038		1.039		−0.283		1.973		+1.701	
a, *a′*	+7.4		−15.3		+3.0		−15.2		+3.3		−14.9		+1.5		−14.8	
b, *b′*	+0.26		+ 0.64		0.00		+ 0.65		+0.01		+ 0.67		−0.08		+ 0.68	

Tag	550) β Ursae min. AR.		550) Dekl.		551) Pi XIV, 221 AR.		551) Dekl.		552) β Lupi AR.		552) Dekl.		555) β Bootis AR.		555) Dekl.	
1938	14ʰ 50ᵐ		+74° 24′		14ʰ 53ᵐ		+14° 41′		14ʰ 54ᵐ		−42° 52′		14ʰ 59ᵐ		+40° 37′	
Jan. 1	ˢ48.28	74	″13.38	231	ˢ17.655	303	″36.91	224	ˢ28.005	404	″59.88	50	ˢ36.140	338	″49.33	259
11	49.02	82	11.07	173	17.958	316	34.67	201	28.409	418	60.38	83	36.478	359	46.74	216
21	49.84	86	9.34	108	18.274	319	32.66	171	28.827	420	61.21	113	36.837	369	44.58	165
31	50.70	87	8.26	41	18.593	313	30.95	136	29.247	411	62.34	139	37.206	367	42.93	108
Febr. 10	51.57	85	7.85	27	18.906	300	29.59	95	29.658	393	63.73	159	37.573	355	41.85	48
20	52.42	80	8.12	93	19.206	280	28.64	54	30.051	370	65.32	175	37.928	335	41.37	11
März 2	53.22	73	9.05	156	19.486	255	28.10	11	30.421	340	67.07	186	38.263	305	41.48	70
12	53.95	62	10.61	210	19.741	226	27.99	30	30.761	306	68.93	192	38.568	271	42.18	123
22	54.57	51	12.71	255	19.967	197	28.29	66	31.067	272	70.85	195	38.839	231	43.41	170
Apr. 1	55.08	38	15.26	290	20.164	166	28.95	99	31.339	234	72.80	194	39.070	189	45.11	210
11	55.46	24	18.16	313	20.330	135	29.94	124	31.573	196	74.74	190	39.259	147	47.21	240
21	55.70	9	21.29	324	20.465	103	31.18	145	31.769	157	76.64	184	39.406	103	49.61	260
Mai 1	5 55.79	4	24.53	325	6 20.568	72	32.63	158	6 31.926	118	78.48	173	7 39.509	60	52.21	270
10	55.75	18	27.78	314	20.640	43	34.21	165	32.044	78	80.21	161	39.569	18	54.91	271
20	55.57	30	30.92	292	20.683	13	35.86	165	32.122	37	81.82	146	39.587	23	57.62	264
30	55.27	42	33.84	263	20.696	16	37.51	160	32.159	4	83.28	128	39.564	61	60.26	247
Juni 9	54.85	53	36.47	226	20.680	44	39.11	151	32.155	43	84.56	107	39.503	97	62.73	223
19	54.32	61	38.73	183	20.636	70	40.62	137	32.112	81	85.63	85	39.406	130	64.96	195
29	53.71	68	40.56	136	20.566	94	41.99	120	32.031	118	86.48	58	39.276	160	66.91	161
Juli 9	53.03	73	41.92	85	20.472	116	43.19	99	31.913	150	87.06	31	39.116	186	68.52	122
19	52.30	77	42.77	32	20.356	134	44.18	78	31.763	177	87.37	2	38.930	206	69.74	82
29	51.53	79	43.09	21	20.222	148	44.96	54	31.586	198	87.39	28	38.724	221	70.56	40
Aug. 8	50.74	80	42.88	74	20.074	157	45.50	29	31.388	209	87.11	57	38.503	230	70.96	5
18	49.94	77	42.14	125	19.917	159	45.79	2	31.179	212	86.54	86	38.273	232	70.91	49
28	49.17	74	40.89	174	19.758	155	45.81	25	30.967	204	85.68	111	38.041	224	70.42	92
Sept. 7	48.43	69	39.15	221	19.603	142	45.56	53	30.763	186	84.57	133	37.817	209	69.50	134
17	47.74	61	36.94	262	19.461	121	45.03	81	30.577	154	83.24	150	37.608	185	68.16	176
27	47.13	51	34.32	300	19.340	93	44.22	109	30.423	113	81.74	162	37.423	151	66.40	214
Okt. 7	46.62	41	31.32	330	19.247	56	43.13	138	30.310	62	80.12	166	37.272	108	64.26	248
17	46.21	29	28.02	354	19.191	14	41.75	164	30.248	2	78.46	162	37.164	60	61.78	280
27	45.92	15	24.48	372	19.177	33	40.11	188	30.246	62	76.84	152	37.104	4	58.98	304
Nov. 6	45.77	0	20.76	379	19.210	82	38.23	211	30.308	128	75.32	133	37.100	55	55.94	323
16	45.77	15	16.97	376	19.292	133	36.12	228	30.436	194	73.99	109	37.155	116	52.71	334
26	45.92	30	13.21	365	19.425	181	33.84	241	30.630	255	72.90	78	37.271	175	49.37	335
Dez. 6	46.22	44	9.56	341	19.606	223	31.43	246	30.885	309	72.12	45	37.446	229	46.02	328
16	46.66	58	6.15	307	19.829	260	28.97	245	31.194	353	71.67	8	37.675	277	42.74	310
26	47.24	69	3.08	263	20.089	289	26.52	234	31.547	386	71.59	27	37.952	317	39.64	281
36	47.93		0.45		20.378		24.18		31.933		71.86		38.269		36.83	
Mittl. Ort	51.90		31.91		17.584		44.23		27.583		68.74		36.633		62.66	
sec δ, tg δ	3.721		+3.584		1.034		+0.262		1.365		−0.929		1.318		+0.858	
a, *a′*	−0.2		−14.7		+2.8		−14.6		+3.9		−14.5		+2.3		−14.2	
b, *b′*	−0.18		+ 0.68		−0.01		+ 0.69		+0.04		+ 0.69		−0.04		+ 0.71	

Scheinbare Sternörter 1938

Tag	556) γ Scorpii AR.		556) γ Scorpii Dekl.		557) ψ Bootis AR.		557) ψ Bootis Dekl.		558) ζ Lupi AR.		558) ζ Lupi Dekl.		563) δ Bootis AR.		563) δ Bootis Dekl.	
1938	15h 0m		−25° 2′		15h 1m		+27° 10′		15h 7m		−51° 51′		15h 12m		+33° 32′	
	s		″		s		″		s		″		s		″	
Jan. 1	26.489	336	18.57	109	47.145	309	67.74	247	49.311	458	42.37	2	59.819	311	31.31	260
11	26.825	348	19.66	125	47.454	325	65.27	214	49.769	478	42.39	41	60.130	333	28.71	224
21	27.173	350	20.91	138	47.779	332	63.13	173	50.247	484	42.80	79	60.463	343	26.47	178
31	27.523	343	22.29	144	48.111	329	61.40	127	50.731	479	43.59	113	60.806	344	24.69	127
Febr. 10	27.866	330	23.73	146	48.440	317	60.13	76	51.210	463	44.72	142	61.150	334	23.42	73
20	28.196	309	25.19	144	48.757	299	59.37	23	51.673	440	46.14	167	61.484	317	22.69	16
März 2	28.505	284	26.63	137	49.056	273	59.14	27	52.113	408	47.81	187	61.801	293	22.53	40
12	28.789	258	28.00	129	49.329	244	59.41	76	52.521	372	49.68	203	62.094	264	22.93	92
22	29.047	229	29.29	118	49.573	212	60.17	119	52.893	334	51.71	214	62.358	230	23.85	140
Apr. 1	29.276	199	30.47	107	49.785	177	61.36	156	53.227	291	53.85	220	62.588	195	25.25	179
11	29.475	168	31.54	94	49.962	143	62.92	185	53.518	246	56.05	223	62.783	157	27.04	210
21	29.643	138	32.48	82	50.105	107	64.77	207	53.764	201	58.28	221	62.940	119	29.14	234
Mai 1	29.781	106	33.30	71	50.212	72	66.84	219	53.965	153	60.49	216	63.059	81	31.48	247
10*)	[7] 29.887	75	34.01	58	[8] 50.284	38	69.03	224	[9] 54.118	103	62.65	206	[11] 63.140	43	33.95	252
20	29.962	43	34.59	46	50.322	5	71.27	221	54.221	54	64.71	193	63.183	6	36.47	248
30	30.005	11	35.05	35	50.327	27	73.48	211	54.275	3	66.64	176	63.189	29	38.95	237
Juni 9	30.016	21	35.40	22	50.300	59	75.59	195	54.278	47	68.40	154	63.160	64	41.32	219
19	29.995	51	35.62	10	50.241	88	77.54	173	54.231	95	69.94	128	63.096	96	43.51	194
29	29.944	81	35.72	3	50.153	114	79.27	148	54.136	141	71.22	100	63.000	126	45.45	165
Juli 9	29.863	108	35.69	17	50.039	138	80.75	118	53.995	181	72.22	68	62.874	153	47.10	132
19	29.755	131	35.52	30	49.901	158	81.93	87	53.814	217	72.90	34	62.721	175	48.42	96
29	29.624	149	35.22	44	49.743	173	82.80	52	53.597	243	73.24	3	62.546	192	49.38	58
Aug. 8	29.475	161	34.78	56	49.570	183	83.32	17	53.354	260	73.21	39	62.354	203	49.96	18
18	29.314	165	34.22	67	49.387	186	83.49	18	53.094	266	72.82	75	62.151	208	50.14	22
28	29.149	162	33.55	76	49.201	181	83.31	55	52.828	259	72.07	110	61.943	204	49.92	62
Sept. 7	28.987	148	32.79	83	49.020	169	82.76	92	52.569	238	70.97	140	61.739	193	49.30	103
17	28.839	124	31.96	85	48.851	147	81.84	126	52.331	204	69.57	167	61.546	173	48.27	142
27	28.715	93	31.11	83	48.704	119	80.58	161	52.127	157	67.90	186	61.373	143	46.85	179
Okt. 7	28.622	52	30.28	77	48.585	81	78.97	194	51.970	98	66.04	199	61.230	105	45.06	214
17	28.570	5	29.51	65	48.504	38	77.03	222	51.872	30	64.05	203	61.125	60	42.92	245
27	28.565	47	28.86	49	48.466	12	74.81	249	51.842	45	62.02	198	61.065	9	40.47	272
Nov. 6	28.612	103	28.37	29	48.478	64	72.32	270	51.887	123	60.04	185	61.056	46	37.75	294
16	28.715	157	28.08	5	48.542	118	69.62	285	52.010	200	58.19	164	61.102	102	34.81	309
26	28.872	208	28.03	21	48.660	169	66.77	293	52.210	272	56.55	136	61.204	157	31.72	316
Dez. 6	29.080	254	28.24	48	48.829	217	63.84	292	52.482	338	55.19	101	61.361	209	28.56	313
16	29.334	292	28.72	72	49.046	259	60.92	282	52.820	392	54.18	64	61.570	254	25.43	301
26	29.626	320	29.44	96	49.305	291	58.10	264	53.212	434	53.54	24	61.824	292	22.42	279
36	29.946		30.40		49.596		55.46		53.646		53.30		62.116		19.63	
Mittl. Ort	26.135		22.91		47.320		77.90		49.004		53.09		60.196		42.26	
sec δ, tg δ	1.104		−0.467		1.124		+0.514		1.619		−1.274		1.200		+0.663	
a, *a′*	+3.5		−14.1		+2.6		−14.1		+4.3		−13.7		+2.4		−13.3	
b, *b′*	+0.02		+ 0.71		−0.02		+ 0.71		+0.06		+ 0.73		−0.03		+ 0.75	

*) Bei Stern 563) lies Mai 11.

Tag	560) γ Triang. austr. AR.		560) Dekl.		564) β Librae AR.		564) Dekl.		565) ι H. Ursae min. AR.		565) Dekl.		566) φ¹ Lupi AR.		566) Dekl.	
1938	15h 13m		−68° 26′		15h 13m		−9° 9′		15h 13m		+67° 34′		15h 17m		−36° 2′	
	s		″		s		″		s		″		s		″	
Jan. 1	5.52	71	55.82	64	40.257	303	19.49	157	52.64	52	38.48	265	52.129	362	9.48	52
11	6.23	74	55.18	16	40.560	316	21.06	158	53.16	58	35.83	210	52.491	378	10.00	78
21	6.97	76	55.02	34	40.876	321	22.64	153	53.74	62	33.73	150	52.869	384	10.78	102
31	7.73	76	55.36	81	41.197	317	24.17	142	54.36	64	32.23	84	53.253	381	11.80	120
Febr. 10	8.49	75	56.17	123	41.514	306	25.59	127	55.00	63	31.39	16	53.634	369	13.00	134
20	9.24	71	57.40	163	41.820	290	26.86	108	55.63	60	31.23	52	54.003	351	14.34	143
März 2	9.95	66	59.03	197	42.110	268	27.94	86	56.23	56	31.75	117	54.354	327	15.77	150
12	10.61	61	61.00	226	42.378	245	28.80	64	56.79	50	32.92	176	54.681	301	17.27	152
22	11.22	54	63.26	249	42.623	219	29.44	42	57.29	42	34.68	227	54.982	271	18.79	151
Apr. 1	11.76	48	65.75	266	42.842	192	29.86	20	57.71	34	36.95	269	55.253	240	20.30	148
11	12.24	40	68.41	279	43.034	164	30.06	1	58.05	24	39.64	299	55.493	208	21.78	144
21	12.64	31	71.20	285	43.198	136	30.07	14	58.29	15	42.63	318	55.701	173	23.22	137
Mai 1	12.95	23	74.05	285	43.334	107	29.93	29	58.44	5	45.81	325	55.874	138	24.59	129
11	13.18	15	76.90	280	43.441	78	29.64	39	58.49	4	49.06	321	56.012	102	25.88	119
20	11 13.33	6	79.70	268	11 43.519	49	29.25	47	11 58.45	13	52.27	308	12 56.114	66	27.07	108
30	13.39	4	82.38	250	43.568	19	28.78	52	58.32	22	55.35	285	56.180	27	28.15	95
Juni 9	13.35	12	84.88	226	43.587	10	28.26	56	58.10	30	58.20	254	56.207	11	29.10	80
19	13.23	21	87.14	197	43.577	40	27.70	57	57.80	36	60.74	216	56.196	48	29.90	63
29	13.02	28	89.11	163	43.537	67	27.13	58	57.44	43	62.90	172	56.148	85	30.53	45
Juli 9	12.74	35	90.74	123	43.470	93	26.55	58	57.01	47	64.62	125	56.063	117	30.98	25
19	12.39	41	91.97	78	43.377	116	25.97	56	56.54	51	65.87	75	55.946	146	31.23	3
29	11.98	45	92.75	33	43.261	135	25.41	54	56.03	54	66.62	23	55.800	170	31.26	20
Aug. 8	11.53	48	93.08	16	43.126	147	24.87	50	55.49	55	66.85	30	55.630	186	31.06	42
18	11.05	49	92.92	65	42.979	154	24.37	45	54.94	54	66.55	82	55.444	194	30.64	64
28	10.56	47	92.27	112	42.825	152	23.92	39	54.40	53	65.73	133	55.250	192	30.00	84
Sept. 7	10.09	43	91.15	155	42.673	143	23.53	32	53.87	50	64.40	182	55.058	179	29.16	101
17	9.66	38	89.60	194	42.530	125	23.21	20	53.37	46	62.58	227	54.879	156	28.15	115
27	9.28	31	87.66	227	42.405	97	23.01	8	52.91	40	60.31	268	54.723	123	27.00	125
Okt. 7	8.97	20	85.39	251	42.308	62	22.93	7	52.51	32	57.63	305	54.600	78	25.75	127
17	8.77	10	82.88	265	42.246	20	23.00	26	52.19	24	54.58	336	54.522	27	24.48	124
27	8.67	3	80.23	269	42.226	28	23.26	45	51.95	14	51.22	358	54.495	31	23.24	114
Nov. 6	8.70	15	77.54	262	42.254	77	23.71	67	51.81	3	47.64	373	54.526	92	22.10	100
16	8.85	28	74.92	245	42.331	128	24.38	89	51.78	7	43.91	379	54.618	153	21.10	78
26	9.13	40	72.47	218	42.459	177	25.27	110	51.85	18	40.12	374	54.771	211	20.32	53
Dez. 6	9.53	50	70.29	183	42.636	220	26.37	127	52.03	30	36.38	358	54.982	263	19.79	24
16	10.03	59	68.46	141	42.856	258	27.64	143	52.33	39	32.80	331	55.245	307	19.55	5
26	10.62	67	67.05	95	43.114	286	29.07	153	52.72	48	29.49	294	55.552	342	19.60	34
36	11.29		66.10		43.400		30.60		53.20		26.55		55.894		19.94	
Mittl. Ort	5.54		69.14		40.051		19.66		55.16		54.61		51.843		16.72	
sec δ, tg δ	2.723		−2.533		1.013		−0.161		2.622		+2.424		1.237		−0.727	
a, *a′*	+5.6		−13.3		+3.2		−13.3		+0.6		−13.3		+3.8		−13.0	
b, *b′*	+0.11		+ 0.75		+0.01		+ 0.75		−0.11		+ 0.75		+0.03		+ 0.76	

Scheinbare Sternörter 1938

Tag	569) γ Ursae min. AR.		Dekl.		568) μ Bootis AR.		Dekl.		571) ι Draconis AR.		Dekl.		572) β Coron. bor. AR.		Dekl.	
1938	15h 20m		+72° 2′		15h 22m		+37° 35′		15h 23m		+59° 10′		15h 25m		+29° 18′	
	s		″		s		″		s		″		s		″	
Jan. 1	45.20	60	60.69	264	8.324	312	25.84	269	31.231	408	43.16	278	16.016	296	56.65	259
11	45.80	68	58.05	211	8.636	338	23.15	230	31.639	452	40.38	229	16.312	317	54.06	226
21	46.48	74	55.94	151	8.974	351	20.85	183	32.091	481	38.09	170	16.629	330	51.80	186
31	47.22	77	54.43	84	9.325	354	19.02	130	32.572	493	36.39	107	16.959	332	49.94	138
Febr. 10	47.99	76	53.59	16	9.679	347	17.72	73	33.065	490	35.32	40	17.291	325	48.56	86
20	48.75	73	53.43	52	10.026	332	16.99	13	33.555	472	34.92	27	17.616	310	47.70	32
März 2	49.48	68	53.95	117	10.358	308	16.86	45	34.027	439	35.19	92	17.926	289	47.38	21
12	50.16	62	55.12	177	10.666	279	17.31	100	34.466	395	36.11	153	18.215	263	47.59	73
22	50.78	52	56.89	228	10.945	246	18.31	150	34.861	342	37.64	206	18.478	234	48.32	120
Apr. 1	51.30	41	59.17	269	11.191	208	19.81	191	35.203	282	39.70	250	18.712	201	49.52	160
11	51.71	30	61.86	301	11.399	170	21.72	225	35.485	216	42.20	284	18.913	167	51.12	192
21	52.01	19	64.87	321	11.569	129	23.97	249	35.701	149	45.04	306	19.080	132	53.04	217
Mai 1	52.20	6	68.08	329	11.698	89	26.46	264	35.850	80	48.10	318	19.212	96	55.21	233
11	52.26	6	71.37	325	11.787	48	29.10	269	35.930	11	51.28	319	19.308	60	57.54	239
20	$_{13}$52.20	17	74.62	313	$_{13}$11.835	8	31.79	266	$_{13}$35.941	55	54.47	310	$_{14}$19.368	25	59.93	239
30	52.03	28	77.75	289	11.843	30	34.45	254	35.886	118	57.57	291	19.393	10	62.32	231
Juni 9	51.75	38	80.64	259	11.813	68	36.99	235	35.768	177	60.48	264	19.383	44	64.63	215
19	51.37	47	83.23	221	11.745	103	39.34	209	35.591	231	63.12	230	19.339	77	66.78	195
29	50.90	55	85.44	177	11.642	135	41.43	179	35.360	278	65.42	190	19.262	108	68.73	168
Juli 9	50.35	60	87.21	130	11.507	164	43.22	143	35.082	319	67.32	146	19.154	135	70.41	139
19	49.75	65	88.51	80	11.343	189	44.65	106	34.763	353	68.78	99	19.019	159	71.80	106
29	49.10	69	89.31	27	11.154	208	45.71	65	34.410	376	69.77	48	18.860	178	72.86	71
Aug. 8	48.41	70	89.58	26	10.946	221	46.36	23	34.034	391	70.25	3	18.682	192	73.57	34
18	47.71	71	89.32	78	10.725	227	46.59	20	33.643	395	70.22	54	18.490	199	73.91	4
28	47.00	68	88.54	129	10.498	225	46.39	63	33.248	388	69.68	104	18.291	198	73.87	42
Sept. 7	46.32	65	87.25	178	10.273	213	45.76	105	32.860	369	68.64	154	18.093	189	73.45	80
17	45.67	59	85.47	224	10.060	194	44.71	147	32.491	338	67.10	200	17.904	171	72.65	119
27	45.08	53	83.23	265	9.866	165	43.24	186	32.153	295	65.10	243	17.733	144	71.46	154
Okt. 7	44.55	44	80.58	302	9.701	126	41.38	223	31.858	241	62.67	281	17.589	109	69.92	189
17	44.11	33	77.56	333	9.575	80	39.15	255	31.617	176	59.86	315	17.480	67	68.03	222
27	43.78	22	74.23	356	9.495	28	36.60	284	31.441	101	56.71	342	17.413	17	65.81	249
Nov. 6	43.56	9	70.67	371	9.467	29	33.76	306	31.340	21	53.29	360	17.396	35	63.32	272
16	43.47	4	66.96	377	9.496	88	30.70	321	31.319	64	49.69	371	17.431	90	60.60	290
26	43.51	18	63.19	373	9.584	146	27.49	327	31.383	149	45.98	370	17.521	143	57.70	299
Dez. 6	43.69	31	59.46	357	9.730	200	24.22	325	31.532	231	42.28	360	17.664	194	54.71	300
16	44.00	44	55.89	331	9.930	249	20.97	312	31.763	307	38.68	337	17.858	239	51.71	293
26	44.44	54	52.58	293	10.179	290	17.85	289	32.070	372	35.31	305	18.097	275	48.78	275
36	44.98		49.65		10.469		14.96		32.442		32.26		18.372		46.03	
Mittl. Ort	48.70		76.54		8.865		37.01		32.874		57.64		16.361		65.89	
sec δ, tg δ	3.246		+3.088		1.262		+0.770		1.952		+1.676		1.147		+0.562	
a, *a′*	−0.1		−12.8		+2.3		−12.7		+1.3		−12.6		+2.5		−12.5	
b, *b′*	−0.13		+ 0.77		−0.03		+ 0.77		−0.07		+ 0.78		−0.02		+ 0.78	

Tag	573) ν¹ Bootis AR.		573) ν¹ Bootis Dekl.		575) γ Lupi AR.		575) γ Lupi Dekl.		577) γ Librae AR.		577) γ Librae Dekl.		578) α Coron. bor. AR.		578) α Coron. bor. Dekl.	
1938	15h 28m		+41° 2′		15h 30m		−40° 57′		15h 32m		−14° 35′		15h 32m		+26° 55′	
	s		″		s		″		s		″		s		″	
Jan. 1	41.423	316	25.05	277	60.188	375	27.76	20	3.417	300	0.75	128	3.409	289	11.58	257
11	41.739	343	22.28	236	60.563	395	27.96	49	3.717	317	2.03	134	3.698	311	9.01	227
21	42.082	360	19.92	188	60.958	405	28.45	75	4.034	324	3.37	135	4.009	324	6.74	189
31	42.442	366	18.04	132	61.363	405	29.20	99	4.358	324	4.72	131	4.333	326	4.85	143
Febr. 10	42.808	361	16.72	73	61.768	395	30.19	118	4.682	316	6.03	121	4.659	321	3.42	94
20	43.169	347	15.99	12	62.163	379	31.37	134	4.998	302	7.24	109	4.980	308	2.48	41
März 2	43.516	324	15.87	49	62.542	358	32.71	145	5.300	284	8.33	93	5.288	289	2.07	12
12	43.840	294	16.36	105	62.900	331	34.16	153	5.584	263	9.26	75	5.577	264	2.19	61
22	44.134	260	17.41	156	63.231	301	35.69	157	5.847	238	10.01	58	5.841	236	2.80	108
Apr. 1	44.394	222	18.97	200	63.532	270	37.26	160	6.085	213	10.59	40	6.077	206	3.88	148
11	44.616	181	20.97	235	63.802	236	38.86	158	6.298	186	10.99	25	6.283	173	5.36	181
21	44.797	139	23.32	260	64.038	201	40.44	156	6.484	159	11.24	10	6.456	140	7.17	206
Mai 1	44.936	95	25.92	276	64.239	163	42.00	151	6.643	130	11.34	2	6.596	105	9.23	223
11	45.031	52	28.68	282	64.402	124	43.51	143	6.773	100	11.32	11	6.701	70	11.46	232
20	45.083	10	31.50	278	64.526	83	44.94	134	6.873	70	11.21	19	6.771	35	13.78	232
30	45.093	32	34.28	266	64.609	42	46.28	123	6.943	38	11.02	26	6.806	1	16.10	225
Juni 9	45.061	73	36.94	247	64.651	1	47.51	107	6.981	6	10.76	31	6.807	34	18.35	211
19	44.988	110	39.41	220	64.650	43	48.58	90	6.987	26	10.45	34	6.773	66	20.46	193
29	44.878	145	41.61	188	64.607	83	49.48	71	6.961	56	10.11	38	6.707	97	22.39	168
Juli 9	44.733	175	43.49	152	64.524	121	50.19	48	6.905	85	9.73	41	6.610	125	24.07	140
19	44.558	202	45.01	112	64.403	154	50.67	24	6.820	112	9.32	43	6.485	150	25.47	110
29	44.356	224	46.13	70	64.249	181	50.91	2	6.708	133	8.89	45	6.335	171	26.57	76
Aug. 8	44.132	237	46.83	26	64.068	202	50.89	28	6.575	150	8.44	47	6.164	185	27.33	41
18	43.895	244	47.09	19	63.866	212	50.61	54	6.425	160	7.97	47	5.979	193	27.74	5
28	43.651	244	46.90	64	63.654	213	50.07	80	6.265	161	7.50	46	5.786	194	27.79	33
Sept. 7	43.407	232	46.26	108	63.441	202	49.27	102	6.104	154	7.04	44	5.592	186	27.46	69
17	43.175	213	45.18	151	63.239	179	48.25	121	5.950	137	6.60	39	5.406	169	26.77	106
27	42.962	183	43.67	192	63.060	145	47.04	136	5.813	112	6.21	31	5.237	144	25.71	142
Okt. 7	42.779	144	41.75	230	62.915	100	45.68	145	5.701	77	5.90	20	5.093	110	24.29	176
17	42.635	97	39.45	264	62.815	46	44.23	146	5.624	36	5.70	6	4.983	68	22.53	208
27	42.538	43	36.81	293	62.769	15	42.77	142	5.588	12	5.64	10	4.915	21	20.45	237
Nov. 6	42.495	16	33.88	316	62.784	79	41.35	130	5.600	63	5.74	29	4.894	31	18.08	260
16	42.511	77	30.72	331	62.863	145	40.05	112	5.663	115	6.03	50	4.925	84	15.48	278
26	42.588	137	27.41	338	63.008	207	38.93	89	5.778	165	6.53	71	5.009	138	12.70	290
Dez. 6	42.725	195	24.03	334	63.215	264	38.04	61	5.943	211	7.24	90	5.147	187	9.80	293
16	42.920	247	20.69	321	63.479	313	37.43	31	6.154	250	8.14	107	5.334	231	6.87	287
26	43.167	291	17.48	297	63.792	352	37.12	0	6.404	282	9.21	122	5.565	269	4.00	272
36	43.458		14.51		64.144		37.12		6.686		10.43		5.834		1.28	
Mittl. Ort	42.112		36.41		59.980		36.08		3.260		2.78		3.736		19.87	
sec δ, tg δ	1.326		+0.871		1.324		−0.868		1.033		−0.260		1.122		+0.508	
a, *a*′	+2.2		−12.3		+4.0		−12.1		+3.4		−12.1		+2.5		−12.1	
b, *b*′	−0.04		+ 0.79		+0.04		+ 0.80		+0.01		+ 0.80		−0.02		+ 0.80	

Scheinbare Sternörter 1938

Tag	582) α Serpentis				583) β Serpentis				584) κ Serpentis				590) ζ Ursae min.			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$15^h\ 41^m$		+6° 36′		$15^h\ 43^m$		+15° 36′		$15^h\ 45^m$		+18° 19′		$15^h\ 46^m$		+77° 58′	
Jan. 1	12.688	277	66.80	203	19.341	274	47.29	232	56.661	274	48.67	240	7.51	75	56.38	278
11	12.965	295	64.77	190	19.615	296	44.97	211	56.935	295	46.27	217	8.26	89	53.60	230
21	13.260	306	62.87	170	19.911	308	42.86	182	57.230	308	44.10	187	9.15	100	51.30	172
31	13.566	309	61.17	143	20.219	311	41.04	148	57.538	313	42.23	149	10.15	106	49.58	108
Febr. 10	13.875	303	59.74	112	20.530	306	39.56	108	57.851	309	40.74	107	11.21	109	48.50	41
20	14.178	291	58.62	78	20.836	296	38.48	65	58.160	298	39.67	62	12.30	108	48.09	27
März 2	14.469	275	57.84	41	21.132	279	37.83	21	58.458	282	39.05	15	13.38	103	48.36	93
12	14.744	254	57.43	4	21.411	259	37.62	23	58.740	262	38.90	30	14.41	93	49.29	154
22	14.998	232	57.39	29	21.670	234	37.85	64	59.002	238	39.20	73	15.34	82	50.83	209
Apr. 1	15.230	206	57.68	61	21.904	209	38.49	100	59.240	211	39.93	111	16.16	68	52.92	254
11	15.436	180	58.29	88	22.113	180	39.49	131	59.451	183	41.04	143	16.84	52	55.46	290
21	15.616	152	59.17	109	22.293	151	40.80	155	59.634	153	42.47	167	17.36	34	58.36	314
Mai 1	15.768	124	60.26	126	22.444	121	42.35	172	59.787	122	44.14	186	17.70	16	61.50	327
11	15.892	94	61.52	136	22.565	90	44.07	182	59.909	90	46.00	196	17.86	2	64.77	329
20	[18] 15.986	63	62.88	141	[18] 22.655	58	45.89	187	[19] 59.999	58	47.96	200	[19] 17.84	20	68.06	321
30	16.049	33	64.29	141	22.713	26	47.76	184	60.057	25	49.96	197	17.64	37	71.27	302
Juni 9	16.082	1	65.70	137	22.739	7	49.60	176	60.082	9	51.93	188	17.27	53	74.29	275
19	16.083	29	67.07	129	22.732	38	51.36	164	60.073	40	53.81	175	16.74	67	77.04	241
29	16.054	60	68.36	118	22.694	70	53.00	147	60.033	72	55.56	156	16.07	80	79.45	201
Juli 9	15.994	88	69.54	104	22.624	98	54.47	127	59.961	102	57.12	134	15.27	91	81.46	156
19	15.906	114	70.58	89	22.526	124	55.74	104	59.859	127	58.46	110	14.36	99	83.02	108
29	15.792	135	71.47	71	22.402	145	56.78	79	59.732	150	59.56	82	13.37	105	84.10	56
Aug. 8	15.657	151	72.18	52	22.257	162	57.57	53	59.582	167	60.38	54	12.32	108	84.66	5
18	15.506	162	72.70	32	22.095	173	58.10	25	59.415	177	60.92	24	11.24	110	84.71	48
28	15.344	165	73.02	12	21.922	175	58.35	4	59.238	181	61.16	7	10.14	109	84.23	99
Sept. 7	15.179	159	73.14	11	21.747	170	58.31	33	59.057	176	61.09	39	9.05	106	83.24	149
17	15.020	145	73.03	34	21.577	156	57.98	63	58.881	162	60.70	70	7.99	98	81.75	196
27	14.875	123	72.69	58	21.421	134	57.35	92	58.719	139	60.00	102	7.01	90	79.79	240
Okt. 7	14.752	91	72.11	82	21.287	102	56.43	123	58.580	108	58.98	133	6.11	78	77.39	278
17	14.661	52	71.29	106	21.185	63	55.20	151	58.472	69	57.65	163	5.33	64	74.61	313
27	14.609	9	70.23	131	21.122	19	53.69	178	58.403	25	56.02	190	4.69	48	71.48	339
Nov. 6	14.600	40	68.92	154	21.103	31	51.91	202	58.378	25	54.12	215	4.21	30	68.09	359
16	14.640	90	67.38	174	21.134	81	49.89	222	58.403	76	51.97	236	3.91	12	64.50	369
26	14.730	139	65.64	191	21.215	131	47.67	237	58.479	127	49.61	250	3.79	9	60.81	369
Dez. 6	14.869	185	63.73	203	21.346	179	45.30	246	58.606	174	47.11	258	3.88	29	57.12	359
16	15.054	225	61.70	209	21.525	220	42.84	247	58.780	217	44.53	258	4.17	48	53.53	337
26	15.279	257	59.61	207	21.745	254	40.37	241	58.997	253	41.95	249	4.65	66	50.16	305
36	15.536		57.54		21.999		37.96		59.250		39.46		5.31		47.11	
Mittl. Ort	12.742		69.87		19.520		52.39		56.894		54.25		13.76		70.09	
sec δ, tg δ	1.007		+0.116		1.038		+0.280		1.054		+0.331		4.804		+4.699	
a, *a′*	+2.9		−11.4		+2.8		−11.3		+2.7		−11.1		−2.2		−11.0	
b, *b′*	0.00		+ 0.82		−0.01		+ 0.83		−0.01		+ 0.83		−0.17		+ 0.83	

Tag		585) μ Serpentis AR.		585) μ Serpentis Dekl.		588) ε Serpentis AR.		588) ε Serpentis Dekl.		589) β Triang. austr. AR.		589) β Triang. austr. Dekl.		593) ε Coron. bor. AR.		593) ε Coron. bor. Dekl.	
1938		15h 46m		−3° 14′		15h 47m		+4° 39′		15h 49m		−63° 14′		15h 55m		+27° 2′	
		s		"		s		"		s		"		s		"	
Jan.	1	22.941	278	31.29	167	43.352	273	44.57	196	39.44	56	17.52	93	0.736	271	75.49	264
	11	23.219	298	32.96	162	43.625	293	42.61	184	40.00	60	16.59	49	1.007	298	72.85	235
	21	23.517	308	34.58	152	43.918	304	40.77	166	40.60	62	16.10	7	1.305	314	70.50	199
	31	23.825	310	36.10	136	44.222	308	39.11	142	41.22	64	16.03	35	1.619	321	68.51	155
Febr.	10	24.135	305	37.46	115	44.530	303	37.69	113	41.86	63	16.38	75	1.940	321	66.96	106
	20	24.440	294	38.61	90	44.833	292	36.56	80	42.49	61	17.13	111	2.261	313	65.90	54
März	2	24.734	279	39.51	63	45.125	277	35.76	46	43.10	59	18.24	144	2.574	297	65.36	0
	12	25.013	259	40.14	35	45.402	258	35.30	11	43.69	56	19.68	173	2.871	277	65.36	51
	22	25.272	237	40.49	8	45.660	236	35.19	23	44.25	51	21.41	197	3.148	252	65.87	100
Apr.	1	25.509	214	40.57	17	45.896	212	35.42	53	44.76	46	23.38	216	3.400	225	66.87	142
	11	25.723	189	40.40	40	46.108	186	35.95	79	45.22	40	25.54	232	3.625	194	68.29	178
	21	25.912	162	40.00	57	46.294	159	36.74	100	45.62	35	27.86	243	3.819	162	70.07	206
Mai	1	26.074	134	39.43	71	46.453	131	37.74	116	45.97	28	30.29	249	3.981	128	72.13	226
	11	26.208	105	38.72	82	46.584	101	38.90	127	46.25	21	32.78	249	4.109	94	74.39	237
	20*)	[19] 26.313	76	37.90	89	[19] 46.685	71	40.17	133	[20] 46.46	13	35.27	245	4.203 [21]	58	76.76	240
	30	26.389	44	37.01	91	46.756	40	41.50	134	46.59	6	37.72	235	4.261	21	79.16	236
Juni	9	26.433	13	36.10	91	46.796	9	42.84	130	46.65	1	40.07	219	4.282	14	81.52	225
	19	26.446	19	35.19	88	46.805	24	44.14	123	46.64	9	42.26	198	4.268	49	83.77	207
	29	26.427	50	34.31	84	46.781	54	45.37	113	46.55	16	44.24	171	4.219	83	85.84	185
Juli	9	26.377	80	33.47	77	46.727	83	46.50	101	46.39	22	45.95	140	4.136	115	87.69	158
	19	26.297	106	32.70	69	46.644	110	47.51	87	46.17	29	47.35	104	4.021	143	89.27	127
	29	26.191	129	32.01	60	46.534	132	48.38	71	45.88	34	48.39	63	3.878	167	90.54	94
Aug.	8	26.062	147	31.41	50	46.402	149	49.09	54	45.54	37	49.02	21	3.711	186	91.48	59
	18	25.915	158	30.91	39	46.253	162	49.63	35	45.17	39	49.23	23	3.525	198	92.07	23
	28	25.757	162	30.52	28	46.091	165	49.98	16	44.78	40	49.00	68	3.327	202	92.30	15
Sept.	7	25.595	157	30.24	14	45.926	160	50.14	4	44.38	38	48.32	111	3.125	198	92.15	53
	17	25.438	144	30.10	0	45.766	148	50.10	25	44.00	35	47.21	150	2.927	185	91.62	90
	27	25.294	122	30.10	17	45.618	126	49.85	48	43.65	29	45.71	185	2.742	162	90.72	127
Okt.	7	25.172	90	30.27	35	45.492	95	49.37	71	43.36	22	43.86	212	2.580	131	89.45	162
	17	25.082	52	30.62	54	45.397	56	48.66	95	43.14	15	41.74	232	2.449	92	87.83	196
	27	25.030	7	31.16	74	45.341	13	47.71	119	42.99	4	39.42	242	2.357	46	85.87	227
Nov.	6	25.023	42	31.90	95	45.328	35	46.52	141	42.95	6	37.00	243	2.311	5	83.60	252
	16	25.065	91	32.85	116	45.363	85	45.11	161	43.01	16	34.57	234	2.316	58	81.08	273
	26	25.156	141	34.01	134	45.448	134	43.50	178	43.17	27	32.23	216	2.374	112	78.35	287
Dez.	6	25.297	187	35.35	149	45.582	180	41.72	191	43.44	36	30.07	189	2.486	163	75.48	292
	16	25.484	227	36.84	161	45.762	220	39.81	199	43.80	44	28.18	156	2.649	209	72.56	289
	26	25.711	259	38.45	166	45.982	254	37.82	199	44.24	52	26.62	118	2.858	249	69.67	277
	36	25.970		40.11		46.236		35.83		44.76		25.44		3.107		66.90	
Mittl. Ort		22.920		30.82		43.411		46.90		39.66		29.38		1.171		82.36	
sec δ, tg δ		1.002		−0.057		1.003		+0.082		2.221		−1.983		1.123		+0.511	
a, *a′*		+3.1		−11.0		+3.0		−10.9		+5.3		−10.8		+2.5		−10.4	
b, *b′*		0.00		+ 0.83		0.00		+ 0.84		+0.07		+ 0.84		−0.02		+ 0.85	

*) Bei Stern 593) lies Mai 21.

Tag	594) δ Scorpii AR.		594) δ Scorpii Dekl.		598) ϑ Draconis AR.		598) ϑ Draconis Dekl.		597) β Scorpii AR.		597) β Scorpii Dekl.		603) δ Ophiuchi AR.		603) δ Ophiuchi Dekl.	
1938	$15^h\ 56^m$		$-22°\ 26'$		$16^h\ 0^m$		$+58°\ 43'$		$16^h\ 1^m$		$-19°\ 38'$		$16^h\ 11^m$		$-3°\ 32'$	
	s	Δ	"	Δ	s	Δ	"	Δ	s	Δ	"	Δ	s	Δ	"	Δ
Jan. 1	39.868	299	44.77	80	41.588	352	38.14	304	49.716	290	10.81	89	5.582	263	9.94	158
11	40.167	320	45.57	92	41.940	406	35.10	261	50.006	312	11.70	99	5.845	285	11.52	154
21	40.487	332	46.49	100	42.346	446	32.49	209	50.318	324	12.69	105	6.130	299	13.06	145
31	40.819	336	47.49	105	42.792	471	30.40	148	50.642	329	13.74	105	6.429	306	14.51	129
Febr. 10	41.155	333	48.54	104	43.263	481	28.92	83	50.971	327	14.79	103	6.735	305	15.80	109
20	41.488	322	49.58	100	43.744	476	28.09	16	51.298	317	15.82	96	7.040	298	16.89	85
März 2	41.810	307	50.58	94	44.220	456	27.93	52	51.615	303	16.78	86	7.338	286	17.74	58
12	42.117	289	51.52	85	44.676	425	28.45	116	51.918	286	17.64	74	7.624	271	18.32	31
22	42.406	268	52.37	74	45.101	382	29.61	174	52.204	266	18.38	61	7.895	253	18.63	4
Apr. 1	42.674	244	53.11	64	45.483	331	31.35	225	52.470	244	18.99	49	8.148	231	18.67	22
11	42.918	219	53.75	53	45.814	273	33.60	266	52.714	219	19.48	37	8.379	209	18.45	43
21	43.137	192	54.28	44	46.087	211	36.26	297	52.933	192	19.85	27	8.588	184	18.02	62
Mai 1	43.329	162	54.72	36	46.298	144	39.23	317	53.125	164	20.12	17	8.772	157	17.40	77
11	43.491	132	55.08	28	46.442	76	42.40	327	53.289	134	20.29	10	8.929	129	16.63	87
21	43.623	99	55.36	22	46.518	9	45.67	325	53.423	102	20.39	4	9.058	99	15.76	93
	22				23				23				25			
30	43.722	65	55.58	15	46.527	57	48.92	314	53.525	69	20.43	2	9.157	67	14.83	96
Juni 9	43.787	30	55.73	10	46.470	121	52.06	294	53.594	34	20.41	6	9.224	33	13.87	95
19	43.817	6	55.83	4	46.349	182	55.00	267	53.628	2	20.35	11	9.257	0	12.92	92
29	43.811	42	55.87	3	46.167	237	57.67	232	53.626	37	20.24	15	9.257	33	12.00	86
Juli 9	43.769	75	55.84	9	45.930	287	59.99	191	53.589	71	20.09	19	9.224	66	11.14	80
19	43.694	107	55.75	16	45.643	330	61.90	147	53.518	102	19.90	23	9.158	96	10.34	71
29	43.587	134	55.59	25	45.313	364	63.37	100	53.416	129	19.67	29	9.062	122	9.63	61
Aug. 8	43.453	155	55.34	32	44.949	388	64.37	50	53.287	151	19.38	34	8.940	144	9.02	52
18	43.298	169	55.02	40	44.561	404	64.87	2	53.136	166	19.04	39	8.796	159	8.50	40
28	43.129	175	54.62	48	44.157	407	64.85	53	52.970	173	18.65	43	8.637	166	8.10	29
Sept. 7	42.954	172	54.14	53	43.750	397	64.32	103	52.797	170	18.22	46	8.471	166	7.81	15
17	42.782	158	53.61	56	43.353	377	63.29	153	52.627	158	17.76	47	8.305	156	7.66	2
27	42.624	134	53.05	57	42.976	343	61.76	200	52.469	135	17.29	46	8.149	137	7.64	14
Okt. 7	42.490	101	52.48	55	42.633	295	59.76	244	52.334	104	16.83	41	8.012	109	7.78	31
17	42.389	59	51.93	48	42.338	237	57.32	282	52.230	63	16.42	33	7.903	72	8.09	49
27	42.330	11	51.45	37	42.101	169	54.50	315	52.167	16	16.09	21	7.831	29	8.58	68
Nov. 6	42.319	42	51.08	23	41.932	92	51.35	342	52.151	35	15.88	7	7.802	18	9.26	88
16	42.361	96	50.85	6	41.840	9	47.93	360	52.186	89	15.81	10	7.820	68	10.14	108
26	42.457	149	50.79	13	41.831	76	44.33	368	52.275	141	15.91	29	7.888	117	11.22	125
Dez. 6	42.606	198	50.92	33	41.907	160	40.65	365	52.416	189	16.20	48	8.005	164	12.47	140
16	42.804	242	51.25	52	42.067	240	37.00	352	52.605	233	16.68	65	8.169	206	13.87	152
26	43.046	278	51.77	70	42.307	312	33.48	326	52.838	269	17.33	81	8.375	242	15.39	157
36	43.324		52.47		42.619		30.22		53.107		18.14		8.617		16.96	
Mittl. Ort	39.785		49.01		43.485		49.27		49.662		14.48		5.653		10.27	
sec δ, tg δ	1.082		−0.413		1.927		+1.647		1.062		−0.357		1.002		−0.062	
a, *a′*	+3.5		−10.3		+1.2		−10.0		+3.5		−9.9		+3.1		−9.2	
b, *b′*	+0.01		+ 0.86		−0.05		+ 0.87		+0.01		+0.87		0.00		+0.89	

Tag	606) 19 Ursae min. AR.		606) 19 Ursae min. Dekl.		605) ε Ophiuchi AR.		605) ε Ophiuchi Dekl.		604) γ^2 Normae AR.		604) γ^2 Normae Dekl.		608) τ Herculis AR.		608) τ Herculis Dekl.	
1938	$16^h\ 12^m$		+76° 1′		$16^h\ 15^m$		−4° 32′		$16^h\ 15^m$		−50° 0′		$16^h\ 17^m$		+46° 27′	
Jan. 1	28.27	58	52.90	302	2.216	261	33.91	152	11.267	389	10.08	66	51.391	281	28.05	307
11	28.85	72	49.88	258	2.477	284	35.43	149	11.656	424	9.42	34	51.672	321	24.98	271
21	29.57	82	47.30	205	2.761	299	36.92	140	12.080	446	9.08	3	51.993	353	22.27	226
31	30.39	89	45.25	145	3.060	306	38.32	126	12.526	459	9.05	27	52.346	373	20.01	172
Febr. 10	31.28	94	43.80	79	3.366	305	39.58	107	12.985	460	9.32	55	52.719	381	18.29	112
20	32.22	94	43.01	11	3.671	299	40.65	84	13.445	453	9.87	80	53.100	380	17.17	49
März 2	33.16	92	42.90	57	3.970	289	41.49	58	13.898	439	10.67	103	53.480	368	16.68	15
12	34.08	87	43.47	121	4.259	273	42.07	31	14.337	418	11.70	121	53.848	347	16.83	78
22	34.95	78	44.68	180	4.532	256	42.38	6	14.755	392	12.91	137	54.195	320	17.61	136
Apr. 1	35.73	67	46.48	231	4.788	235	42.44	19	15.147	362	14.28	150	54.515	286	18.97	188
11	36.40	54	48.79	272	5.023	213	42.25	40	15.509	328	15.78	161	54.801	247	20.85	231
21	36.94	40	51.51	304	5.236	188	41.85	59	15.837	290	17.39	169	55.048	204	23.16	266
Mai 1	37.34	25	54.55	323	5.424	162	41.26	73	16.127	248	19.08	173	55.252	159	25.82	290
11	37.59	9	57.78	333	5.586	133	40.53	82	16.375	203	20.81	175	55.411	110	28.72	304
21	37.68	6	61.11	330	5.719	104	39.71	89	16.578	154	22.56	174	55.521	61	31.76	309
	26				26				26				27			
30	37.62	21	64.41	319	5.823	71	38.82	92	16.732	102	24.30	168	55.582	12	34.85	304
Juni 9	37.41	36	67.60	299	5.894	38	37.90	92	16.834	48	25.98	159	55.594	38	37.89	289
19	37.05	49	70.59	270	5.932	4	36.98	88	16.882	6	27.57	147	55.556	85	40.78	268
29	36.56	62	73.29	234	5.936	30	36.10	83	16.876	61	29.04	129	55.471	131	43.46	239
Juli 9	35.94	72	75.63	192	5.906	63	35.27	77	16.815	112	30.33	108	55.340	173	45.85	205
19	35.22	80	77.55	148	5.843	93	34.50	69	16.703	160	31.41	83	55.167	211	47.90	166
29	34.42	88	79.03	99	5.750	120	33.81	60	16.543	201	32.24	55	54.956	242	49.56	123
Aug. 8	33.54	93	80.02	47	5.630	143	33.21	51	16.342	235	32.79	23	54.714	267	50.79	79
18	32.61	95	80.49	4	5.487	158	32.70	41	16.107	258	33.02	9	54.447	285	51.58	31
28	31.66	96	80.45	56	5.329	167	32.29	30	15.849	269	32.93	42	54.162	293	51.89	17
Sept. 7	30.70	94	79.89	108	5.162	167	31.99	18	15.580	267	32.51	76	53.869	291	51.72	64
17	29.76	90	78.81	157	4.995	158	31.81	5	15.313	250	31.75	105	53.578	278	51.08	113
27	28.86	83	77.24	204	4.837	138	31.76	10	15.063	219	30.70	133	53.300	255	49.95	158
Okt. 7	28.03	75	75.20	247	4.699	111	31.86	25	14.844	175	29.37	155	53.045	221	48.37	202
17	27.28	64	72.73	285	4.588	75	32.11	43	14.669	119	27.82	171	52.824	176	46.35	243
27	26.64	50	69.88	318	4.513	32	32.54	62	14.550	52	26.11	179	52.648	124	43.92	278
Nov. 6	26.14	36	66.70	344	4.481	15	33.16	81	14.498	20	24.32	180	52.524	65	41.14	308
16	25.78	19	63.26	361	4.496	65	33.97	100	14.518	95	22.52	174	52.459	0	38.06	331
26	25.59	1	59.65	368	4.561	114	34.97	117	14.613	169	20.78	159	52.459	66	34.75	344
Dez. 6	25.58	16	55.97	365	4.675	162	36.14	133	14.782	240	19.19	139	52.525	131	31.31	349
16	25.74	32	52.32	351	4.837	204	37.47	144	15.022	304	17.80	114	52.656	192	27.82	343
26	26.06	49	48.81	325	5.041	239	38.91	151	15.326	356	16.66	84	52.848	249	24.39	324
36	26.55		45.56		5.280		40.42		15.682		15.82		53.097		21.15	
Mittl. Ort	33.91		63.91		2.294		34.57		11.380		19.45		52.563		36.28	
sec δ, tg δ	4.144		+4.021		1.003		−0.079		1.556		−1.192		1.452		+1.052	
a, *a′*	−1.7		−9.1		+3.2		−8.9		+4.5		−8.9		+1.8		−8.6	
b, *b′*	−0.12		+0.89		0.00		+0.90		+0.04		+0.90		−0.03		+0.90	

Scheinbare Sternörter 1938

Tag	609) γ Herculis AR.	Diff.	609) γ Herculis Dekl.	Diff.	615) η Draconis AR.	Diff.	615) η Draconis Dekl.	Diff.	611) γ Apodis AR.	Diff.	611) γ Apodis Dekl.	Diff.	616) α Scorpii AR.	Diff.	616) α Scorpii Dekl.	Diff.
1938	$16^h\ 19^m$		$+19°\ 17'$		$16^h\ 23^m$		$+61°\ 38'$		$16^h\ 23^m$		$-78°\ 45'$		$16^h\ 25^m$		$-26°\ 17'$	
Jan. 1	$10^s.643$	249	$46''.93$	244	$6^s.46$	34	$65''.79$	318	$50^s.45$	106	$30''.25$	191	$36^s.080$	287	$41''.02$	42
11	10.892	276	44.49	225	6.80	40	62.61	279	51.51	119	28.34	148	36.367	312	41.44	55
21	11.168	294	42.24	196	7.20	46	59.82	230	52.70	129	26.86	100	36.679	330	41.99	66
31	11.462	305	40.28	160	7.66	49	57.52	171	53.99	135	25.86	51	37.009	339	42.65	74
Febr. 10	11.767	307	38.68	118	8.15	51	55.81	107	55.34	138	25.35	3	37.348	341	43.39	78
20	12.074	303	37.50	72	8.66	52	54.74	39	56.72	138	25.32	45	37.689	336	44.17	78
März 2	12.377	293	36.78	24	9.18	50	54.35	29	58.10	136	25.77	90	38.025	325	44.95	76
12	12.670	278	36.54	23	9.68	48	54.64	94	59.46	130	26.67	133	38.350	312	45.71	72
22	12.948	258	36.77	69	10.16	43	55.58	156	60.76	122	28.00	171	38.662	294	46.43	66
Apr. 1	13.206	236	37.46	109	10.59	39	57.14	210	61.98	113	29.71	204	38.956	273	47.09	61
11	13.442	211	38.55	144	10.98	33	59.24	255	63.11	100	31.75	233	39.229	251	47.70	54
21	13.653	184	39.99	172	11.31	26	61.79	291	64.11	87	34.08	258	39.480	225	48.24	49
Mai 1	13.837	153	41.71	194	11.57	19	64.70	316	64.98	72	36.66	276	39.705	197	48.73	44
11	13.990	123	43.65	208	11.76	12	67.86	330	65.70	56	39.42	288	39.902	166	49.17	40
21	14.113	89	45.73	214	11.88	5	71.16	333	66.26	38	42.30	294	40.068	132	49.57	36
	27				28				29				29			
30	14.202	54	47.87	214	11.93	3	74.49	326	66.64	20	45.24	292	40.200	96	49.93	33
Juni 9	14.256	19	50.01	207	11.90	11	77.75	310	66.84	2	48.16	284	40.296	59	50.26	29
19	14.275	16	52.08	195	11.79	18	80.85	286	66.86	17	51.00	269	40.355	20	50.55	23
29	14.259	51	54.03	178	11.61	24	83.71	254	66.69	35	53.69	245	40.375	20	50.78	19
Juli 9	14.208	85	55.81	156	11.37	30	86.25	216	66.34	52	56.14	215	40.355	59	50.97	13
19	14.123	116	57.37	131	11.07	35	88.41	174	65.82	67	58.29	178	40.296	94	51.10	5
29	14.007	143	58.68	104	10.72	39	90.15	127	65.15	80	60.07	134	40.202	127	51.15	5
Aug. 8	13.864	165	59.72	75	10.33	43	91.42	78	64.35	90	61.41	87	40.075	154	51.10	14
18	13.699	181	60.47	44	9.90	45	92.20	26	63.45	97	62.28	35	39.921	174	50.96	25
28	13.518	189	60.91	12	9.45	46	92.46	26	62.48	99	62.63	19	39.747	184	50.71	35
Sept. 7	13.329	190	61.03	20	8.99	45	92.20	77	61.49	99	62.44	74	39.563	186	50.36	46
17	13.139	181	60.83	54	8.54	44	91.43	128	60.50	94	61.70	126	39.377	177	49.90	53
27	12.958	163	60.29	87	8.10	41	90.15	177	59.56	84	60.44	175	39.200	157	49.37	60
Okt. 7	12.795	135	59.42	119	7.69	37	88.38	223	58.72	70	58.69	218	39.043	127	48.77	63
17	12.660	100	58.23	151	7.32	30	86.15	265	58.02	54	56.51	254	38.916	87	48.14	62
27	12.560	58	56.72	180	7.02	23	83.50	302	57.48	34	53.97	280	38.829	40	47.52	57
Nov. 6	12.502	10	54.92	207	6.79	15	80.48	331	57.14	12	51.17	296	38.789	12	46.95	48
16	12.492	41	52.85	229	6.64	7	77.17	354	57.02	11	48.21	300	38.801	68	46.47	36
26	12.533	92	50.56	246	6.57	2	73.63	367	57.13	34	45.21	294	38.869	123	46.11	21
Dez. 6	12.625	141	48.10	257	6.59	12	69.96	369	57.47	56	42.27	277	38.992	175	45.90	4
16	12.766	186	45.53	260	6.71	21	66.27	360	58.03	77	39.50	251	39.167	222	45.86	15
26	12.952	226	42.93	254	6.92	29	62.67	338	58.80	95	36.99	216	39.389	262	46.01	32
36	13.178		40.39		7.21		59.29		59.75		34.83		39.651		46.33	
Mittl. Ort	11.020		50.84		8.81		75.02		52.70		42.50		36.108		46.18	
sec δ, tg δ	1.060		+0.350		2.106		+1.854		5.131		−5.033		1.116		−0.494	
a, a'	+2.6		−8.5		+0.8		−8.2		+9.2		−8.2		+3.7		−8.0	
b, b'	−0.01		+0.90		−0.05		+0.91		+0.14		+0.91		+0.01		+0.92	

Obere Kulmination Greenwich

Tag	618) β Herculis AR.		618) β Herculis Dekl.		619) *A* Draconis AR.		619) *A* Draconis Dekl.		621) σ Herculis AR.		621) σ Herculis Dekl.		622) ζ Ophiuchi AR.		622) ζ Ophiuchi Dekl.	
1938	16h 27m		+21° 37′		16h 28m		+68° 53′		16h 32m		+42° 33′		16h 33m		−10° 26′	
	s		″		s		″		s		″		s		″	
Jan. 1	32.773	242	20.43	254	2.15	40	59.21	319	5.165	256	43.44	307	44.444	254	32.87	117
11	33.015	271	17.89	232	2.55	49	56.02	280	5.421	297	40.37	275	44.698	279	34.04	118
21	33.286	292	15.57	202	3.04	56	53.22	229	5.718	328	37.62	234	44.977	296	35.22	115
31	33.578	304	13.55	165	3.60	61	50.93	171	6.046	348	35.28	183	45.273	306	36.37	107
Febr. 10	33.882	308	11.90	122	4.21	64	49.22	107	6.394	359	33.45	126	45.579	309	37.44	94
20	34.190	306	10.68	74	4.85	66	48.15	38	6.753	360	32.19	65	45.888	305	38.38	78
März 2	34.496	297	9.94	25	5.51	64	47.77	30	7.113	352	31.54	2	46.193	297	39.16	58
12	34.793	283	9.69	25	6.15	62	48.07	96	7.465	337	31.52	59	46.490	286	39.74	38
22	35.076	265	9.94	72	6.77	56	49.03	158	7.802	313	32.11	117	46.776	270	40.12	17
Apr. 1	35.341	243	10.66	114	7.33	50	50.61	213	8.115	285	33.28	170	47.046	252	40.29	3
11	35.584	219	11.80	152	7.83	42	52.74	258	8.400	252	34.98	215	47.298	232	40.26	20
21	35.803	191	13.32	182	8.25	33	55.32	294	8.652	214	37.13	251	47.530	209	40.06	35
Mai 1	35.994	161	15.14	204	8.58	23	58.26	319	8.866	172	39.64	278	47.739	184	39.71	47
11	36.155	129	17.18	219	8.81	14	61.45	333	9.038	129	42.42	295	47.923	155	39.24	55
21	36.284	95	19.37	227	8.95	3	64.78	337	9.167	84	45.37	302	48.078	125	38.69	60
30*)	[30] 36.379	60	21.64	227	[30] 8.98	7	68.15	330	9.251	37	48.39	299	48.203	93	38.09	63
Juni 9	36.439	24	23.91	220	8.91	17	71.45	313	[31] 9.288	9	51.38	289	[31] 48.296	58	37.46	63
19	36.463	13	26.11	207	8.74	26	74.58	289	9.279	56	54.27	271	48.354	23	36.83	62
29	36.450	49	28.18	189	8.48	34	77.47	257	9.223	101	56.98	245	48.377	14	36.21	59
Juli 9	36.401	84	30.07	167	8.14	43	80.04	219	9.122	142	59.43	214	48.363	49	35.62	56
19	36.317	116	31.74	142	7.71	49	82.23	176	8.980	180	61.57	178	48.314	83	35.06	51
29	36.201	144	33.16	113	7.22	54	83.99	129	8.800	214	63.35	138	48.231	113	34.55	46
Aug. 8	36.057	168	34.29	82	6.68	59	85.28	79	8.586	241	64.73	95	48.118	138	34.09	42
18	35.889	186	35.11	49	6.09	62	86.07	27	8.345	260	65.68	50	47.980	158	33.67	37
28	35.703	195	35.60	15	5.47	63	86.34	26	8.085	271	66.18	4	47.822	170	33.30	31
Sept. 7	35.508	197	35.75	19	4.84	62	86.08	77	7.814	272	66.22	43	47.652	172	32.99	25
17	35.311	189	35.56	54	4.22	61	85.31	128	7.542	263	65.79	90	47.480	166	32.74	18
27	35.122	172	35.02	88	3.61	56	84.03	178	7.279	244	64.89	135	47.314	149	32.56	9
Okt. 7	34.950	145	34.14	123	3.05	51	82.25	224	7.035	214	63.54	179	47.165	123	32.47	1
17	34.805	111	32.91	156	2.54	44	80.01	266	6.821	174	61.75	220	47.042	88	32.48	13
27	34.694	69	31.35	186	2.10	35	77.35	303	6.647	126	59.55	257	46.954	47	32.61	28
Nov. 6	34.625	21	29.49	214	1.75	24	74.32	333	6.521	70	56.98	289	46.907	0	32.89	43
16	34.604	29	27.35	238	1.51	14	70.99	355	6.451	11	54.09	314	46.907	51	33.32	59
26	34.633	81	24.97	255	1.37	2	67.44	368	6.440	52	50.95	331	46.958	101	33.91	76
Dez. 6	34.714	131	22.42	266	1.35	10	63.76	370	6.492	114	47.64	338	47.059	149	34.67	92
16	34.845	177	19.76	268	1.45	23	60.06	360	6.606	172	44.26	336	47.208	193	35.59	104
26	35.022	218	17.08	262	1.68	33	56.46	340	6.778	225	40.90	322	47.401	230	36.63	114
36	35.240		14.46		2.01		53.06		7.003		37.68		47.631		37.77	
Mittl. Ort	33.219		24.25		5.68		68.35		6.220		49.99		44.546		35.14	
sec δ, tg δ	1.076		+0.396		2.778		+2.592		1.358		+0.918		1.017		−0.184	
a, *a*′	+2.6		−7.9		−0.1		−7.8		+1.9		−7.5		+3.3		−7.4	
b, *b*′	−0.01		+0.92		−0.07		+0.92		−0.02		+0.93		0.00		+0.93	

*) Bei Stern 621) und 622) lies Mai 31.

Scheinbare Sternörter 1938

Tag	626) η Herculis AR.		626) η Herculis Dekl.		625) α Triang. austr. AR.		625) α Triang. austr. Dekl.		627) Grb 2377 AR.		627) Grb 2377 Dekl.		628) ε Scorpii AR.		628) ε Scorpii Dekl.	
1938	$16^h\ 40^m$		$+39°\ 2'$		$16^h\ 42^m$		$-68°\ 54'$		$16^h\ 44^m$		$+56°\ 53'$		$16^h\ 46^m$		$-34°\ 10'$	
	s		″		s		″		s		″		s		″	
Jan. 1	45.245	241	15.71	303	3.77	58	50.01	177	5.165	278	24.30	328	8.421	288	50.46	14
11	45.486	281	12.68	275	4.35	66	48.24	139	5.443	338	21.02	294	8.709	320	50.32	4
21	45.767	311	9.93	235	5.01	72	46.85	99	5.781	388	18.08	249	9.029	342	50.36	20
31	46.078	332	7.58	188	5.73	75	45.86	58	6.169	424	15.59	194	9.371	356	50.56	34
Febr. 10	46.410	343	5.70	134	6.48	77	45.28	15	6.593	446	13.65	134	9.727	362	50.90	46
20	46.753	346	4.36	75	7.25	78	45.13	25	7.039	455	12.31	68	10.089	360	51.36	55
März 2	47.099	340	3.61	14	8.03	77	45.38	64	7.494	452	11.63	0	10.449	354	51.91	62
12	47.439	326	3.47	47	8.80	74	46.02	100	7.946	435	11.63	66	10.803	343	52.53	66
22	47.765	307	3.94	104	9.54	71	47.02	134	8.381	407	12.29	129	11.146	328	53.19	69
Apr. 1	48.072	281	4.98	156	10.25	66	48.36	164	8.788	369	13.58	185	11.474	309	53.88	71
11	48.353	251	6.54	202	10.91	61	50.00	190	9.157	324	15.43	235	11.783	286	54.59	72
21	48.604	218	8.56	238	11.52	54	51.90	213	9.481	272	17.78	274	12.069	261	55.31	74
Mai 1	48.822	180	10.94	266	12.06	46	54.03	230	9.753	214	20.52	304	12.330	232	56.05	75
11	49.002	139	13.60	285	12.52	38	56.33	243	9.967	151	23.56	323	12.562	200	56.80	75
21	49.141	97	16.45	293	12.90	29	58.76	251	10.118	88	26.79	331	12.762	163	57.55	75
31	49.238	53	19.38	293	13.19	20	61.27	252	10.206	23	30.10	330	12.925	124	58.30	75
Juni 9	^{2}49.291	9	22.31	284	^{2}13.39	10	63.79	248	^{3}10.229	43	33.40	319	^{3}13.049	82	59.05	72
19	49.300	36	25.15	268	13.49	1	66.27	238	10.186	106	36.59	300	13.131	39	59.77	68
29	49.264	80	27.83	245	13.48	11	68.65	220	10.080	166	39.59	272	13.170	6	60.45	62
Juli 9	49.184	121	30.28	216	13.37	20	70.85	196	9.914	223	42.31	238	13.164	50	61.07	53
19	49.063	159	32.44	182	13.17	30	72.81	166	9.691	274	44.69	199	13.114	92	61.60	42
29	48.904	192	34.26	144	12.87	37	74.47	130	9.417	317	46.68	156	13.022	130	62.02	30
Aug. 8	48.712	221	35.70	103	12.50	44	75.77	89	9.100	353	48.24	109	12.892	163	62.32	14
18	48.491	241	36.73	60	12.06	49	76.66	44	8.747	379	49.33	59	12.729	188	62.46	3
28	48.250	253	37.33	16	11.57	52	77.10	3	8.368	393	49.92	9	12.541	203	62.43	20
Sept. 7	47.997	257	37.49	30	11.05	52	77.07	51	7.975	397	50.01	43	12.338	209	62.23	39
17	47.740	249	37.19	75	10.53	50	76.56	99	7.578	387	49.58	95	12.129	203	61.84	56
27	47.491	232	36.44	120	10.03	46	75.57	143	7.191	365	48.63	144	11.926	184	61.28	70
Okt. 7	47.259	205	35.24	163	9.57	39	74.14	183	6.826	329	47.19	192	11.742	155	60.58	82
17	47.054	168	33.61	203	9.18	31	72.31	217	6.497	281	45.27	236	11.587	115	59.76	90
27	46.886	123	31.58	241	8.87	20	70.14	242	6.216	223	42.91	276	11.472	67	58.86	93
Nov. 6	46.763	70	29.17	273	8.67	8	67.72	258	5.993	155	40.15	311	11.405	12	57.93	92
16	46.693	13	26.44	300	8.59	5	65.14	265	5.838	79	37.04	337	11.393	47	57.01	86
26	46.680	46	23.44	318	8.64	18	62.49	261	5.759	1	33.67	355	11.440	106	56.15	74
Dez. 6	46.726	105	20.26	328	8.82	30	59.88	247	5.760	82	30.12	364	11.546	163	55.41	60
16	46.831	161	16.98	328	9.12	41	57.41	226	5.842	161	26.48	359	11.709	215	54.81	43
26	46.992	212	13.70	316	9.53	52	55.15	197	6.003	235	22.89	345	11.924	260	54.38	25
36	47.204		10.54		10.05		53.18		6.238		19.44		12.184		54.13	
Mittl. Ort	46.192		21.11		4.78		60.80		7.136		31.11		8.543		56.84	
sec δ, tg δ	1.288		+0.811		2.780		−2.594		1.831		+1.534		1.209		−0.679	
a, *a′*	+2.1		−6.8		+6.3		−6.7		+1.1		−6.5		+3.9		−6.3	
b, *b′*	−0.02		+0.94		+0.06		+0.94		−0.03		+0.95		+0.01		+0.95	

Tag	629) 49 Herculis AR.		629) 49 Herculis Dekl.		630) ζ^2 Scorpii AR.		630) ζ^2 Scorpii Dekl.	
1938	$16^h\ 49^m$		$+15°\ 4'$		$16^h\ 50^m$		$-42°\ 15'$	
	s		"		s		"	
Jan. 1	15.031	224	34.89	230	12.602	313	18.14	60
11	15.255	254	32.59	214	12.915	350	17.54	38
21	15.509	276	30.45	191	13.265	375	17.16	15
31	15.785	290	28.54	161	13.640	392	17.01	6
Febr. 10	16.075	297	26.93	123	14.032	400	17.07	26
20	16.372	299	25.70	82	14.432	401	17.33	43
März 2	16.671	293	24.88	38	14.833	394	17.76	57
12	16.964	284	24.50	7	15.227	383	18.33	70
22	17.248	270	24.57	50	15.610	367	19.03	81
Apr. 1	17.518	253	25.07	89	15.977	347	19.84	91
11	17.771	232	25.96	125	16.324	322	20.75	100
21	18.003	208	27.21	155	16.646	294	21.75	106
Mai 1	18.211	182	28.76	177	16.940	261	22.81	112
11	18.393	153	30.53	192	17.201	225	23.93	116
21	18.546	120	32.45	202	17.426	184	25.09	119
31	18.666	87	34.47	204	17.610	140	26.28	120
Juni 9	[4] 18.753	52	36.51	200	[4] 17.750	93	27.48	117
19	18.805	14	38.51	191	17.843	43	28.65	112
29	18.819	22	40.42	177	17.886	6	29.77	103
Juli 9	18.797	58	42.19	159	17.880	56	30.80	92
19	18.739	93	43.78	138	17.824	104	31.72	76
29	18.646	124	45.16	114	17.720	147	32.48	58
Aug. 8	18.522	150	46.30	88	17.573	183	33.06	36
18	18.372	171	47.18	60	17.390	211	33.42	13
28	18.201	184	47.78	31	17.179	229	33.55	13
Sept. 7	18.017	189	48.09	2	16.950	236	33.42	39
17	17.828	185	48.11	28	16.714	229	33.03	63
27	17.643	172	47.83	59	16.485	211	32.40	86
Okt. 7	17.471	148	47.24	89	16.274	178	31.54	106
17	17.323	117	46.35	119	16.096	134	30.48	121
27	17.206	78	45.16	148	15.962	81	29.27	131
Nov. 6	17.128	34	43.68	174	15.881	21	27.96	135
16	17.094	15	41.94	198	15.860	44	26.61	132
26	17.109	65	39.96	217	15.904	109	25.29	124
Dez. 6	17.174	114	37.79	230	16.013	173	24.05	111
16	17.288	159	35.49	237	16.186	231	22.94	93
26	17.447	200	33.12	235	16.417	282	22.01	73
36	17.647		30.77		16.699		21.28	
Mittl. Ort	15.429		36.41		12.797		25.62	
sec δ, tg δ	1.036		+0.269		1.351		−0.909	
a, *a′*	+2.7		−6.1		+4.2		−6.0	
b, *b′*	−0.01		+0.95		+0.02		+0.95	

Tag	631) ζ Arae AR.		631) ζ Arae Dekl.		633) κ Ophiuchi AR.		633) κ Ophiuchi Dekl.	
1938	$16^h\ 53^m$		$-55°\ 53'$		$16^h\ 54^m$		$+9°\ 28'$	
	s		"		s		"	
Jan. 1	28.392	388	31.40	131	43.601	220	11.48	205
11	28.780	437	30.09	102	43.821	250	9.43	194
21	29.217	474	29.07	71	44.071	272	7.49	175
31	29.691	499	28.36	39	44.343	286	5.74	149
Febr. 10	30.190	512	27.97	7	44.629	293	4.25	117
20	30.702	516	27.90	22	44.922	294	3.08	81
März 2	31.218	510	28.12	51	45.216	291	2.27	42
12	31.728	497	28.63	76	45.507	282	1.85	3
22	32.225	477	29.39	100	45.789	269	1.82	37
Apr. 1	32.702	450	30.39	122	46.058	254	2.19	73
11	33.152	418	31.61	141	46.312	234	2.92	104
21	33.570	379	33.02	157	46.546	213	3.96	132
Mai 1	33.949	335	34.59	171	46.759	187	5.28	152
11	34.284	286	36.30	181	46.946	159	6.80	167
21	34.570	231	38.11	187	47.105	129	8.47	175
31	34.801	172	39.98	190	47.234	96	10.22	178
Juni 9	[5] 34.973	108	41.88	189	[5] 47.330	61	12.00	176
19	35.081	42	43.77	181	47.391	25	13.76	168
29	35.123	24	45.58	169	47.416	12	15.44	156
Juli 9	35.099	90	47.27	153	47.404	48	17.00	141
19	35.009	151	48.80	130	47.356	83	18.41	123
29	34.858	207	50.10	103	47.273	115	19.64	103
Aug. 8	34.651	254	51.13	71	47.158	141	20.67	81
18	34.397	291	51.84	37	47.017	163	21.48	58
28	34.106	314	52.21	0	46.854	178	22.06	34
Sept. 7	33.792	322	52.21	38	46.676	183	22.40	9
17	33.470	314	51.83	75	46.493	180	22.49	16
27	33.156	290	51.08	111	46.313	167	22.33	43
Okt. 7	32.866	249	49.97	142	46.146	145	21.90	69
17	32.617	193	48.55	169	46.001	115	21.21	95
27	32.424	125	46.86	189	45.886	77	20.26	121
Nov. 6	32.299	47	44.97	201	45.809	32	19.05	145
16	32.252	36	42.96	205	45.777	15	17.60	168
26	32.288	120	40.91	201	45.792	64	15.92	185
Dez. 6	32.408	202	38.90	189	45.856	112	14.07	200
16	32.610	279	37.01	172	45.968	156	12.07	208
26	32.889	346	35.29	147	46.124	197	9.99	209
36	33.235		33.82		46.321		7.90	
Mittl. Ort	28.846		40.49		43.935		11.90	
sec δ, tg δ	1.783		−1.477		1.014		+0.167	
a, *a′*	+5.0		−5.7		+2.9		−5.6	
b, *b′*	+0.03		+0.96		0.00		+0.96	

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Tag	634) ε Herculis AR.		634) ε Herculis Dekl.		637) η Ophiuchi AR.		637) η Ophiuchi Dekl.		639) ζ Draconis AR.		639) ζ Draconis Dekl.		640) α Herculis AR.		640) α Herculis Dekl.	
1938	$16^h\ 57^m$		$+31°\ 0'$		$17^h\ 6^m$		$-15°\ 38'$		$17^h\ 8^m$		$+65°\ 47'$		$17^h\ 11^m$		$+14°\ 27'$	
Jan. 1	54.262	218	56.36	286	49.018	233	55.88	74	33.03	28	22.46	340	48.717	205	34.10	224
11	54.480	254	53.50	263	49.251	263	56.62	78	33.31	36	19.06	310	48.922	236	31.86	212
21	54.734	282	50.87	231	49.514	285	57.40	79	33.67	44	15.96	268	49.158	262	29.74	191
31	55.016	303	48.56	190	49.799	300	58.19	75	34.11	51	13.28	216	49.420	279	27.83	162
Febr. 10	55.319	316	46.66	141	50.099	308	58.94	68	34.62	54	11.12	157	49.699	290	26.21	127
20	55.635	320	45.25	89	50.407	311	59.62	57	35.16	57	9.55	92	49.989	294	24.94	86
März 2	55.955	317	44.36	32	50.718	308	60.19	43	35.73	58	8.63	24	50.283	294	24.08	43
12	56.272	308	44.04	25	51.026	301	60.62	29	36.31	57	8.39	45	50.577	288	23.65	0
22	56.580	294	44.29	78	51.327	290	60.91	13	36.88	55	8.84	109	50.865	278	23.65	45
Apr. 1	56.874	275	45.07	129	51.617	277	61.04	2	37.43	50	9.93	170	51.143	264	24.10	84
11	57.149	251	46.36	173	51.894	261	61.02	14	37.93	44	11.63	223	51.407	246	24.94	121
21	57.400	223	48.09	210	52.155	241	60.88	24	38.37	38	13.86	267	51.653	226	26.15	151
Mai 1	57.623	192	50.19	238	52.396	217	60.64	33	38.75	30	16.53	301	51.879	201	27.66	176
11	57.815	158	52.57	259	52.613	191	60.31	39	39.05	22	19.54	325	52.080	173	29.42	192
21	57.973	121	55.16	270	52.804	161	59.92	42	39.27	13	22.79	339	52.253	142	31.34	204
31	58.094	81	57.86	272	52.965	128	59.50	42	39.40	4	26.18	342	52.395	108	33.38	207
Juni 9*)	[6] 58.175	40	60.58	268	[9] 53.093	92	59.08	41	[9] 39.44	4	29.60	335	[10] 52.503	73	35.45	205
19	58.215	1	63.26	255	53.185	55	58.67	40	39.40	13	32.95	319	52.576	35	37.50	197
29	58.214	42	65.81	237	53.240	15	58.27	36	39.27	22	36.14	295	52.611	3	39.47	185
Juli 9	58.172	83	68.18	212	53.255	25	57.91	34	39.05	30	39.09	264	52.608	41	41.32	168
19	58.089	121	70.30	183	53.230	63	57.57	30	38.75	37	41.73	227	52.567	78	43.00	147
29	57.968	154	72.13	150	53.167	98	57.27	29	38.38	43	44.00	185	52.489	112	44.47	123
Aug. 8	57.814	184	73.63	115	53.069	128	56.98	26	37.95	48	45.85	139	52.377	141	45.70	99
18	57.630	207	74.78	76	52.941	154	56.72	24	37.47	52	47.24	90	52.236	165	46.69	72
28	57.423	221	75.54	36	52.787	171	56.48	24	36.95	55	48.14	39	52.071	182	47.41	43
Sept. 7	57.202	228	75.90	5	52.616	179	56.24	23	36.40	56	48.53	14	51.889	191	47.84	14
17	56.974	225	75.85	46	52.437	178	56.01	20	35.84	55	48.39	67	51.698	190	47.98	15
27	56.749	211	75.39	88	52.259	166	55.81	19	35.29	53	47.72	118	51.508	179	47.83	46
Okt. 7	56.538	188	74.51	128	52.093	145	55.62	14	34.76	50	46.54	168	51.329	160	47.37	76
17	56.350	156	73.23	167	51.948	113	55.48	8	34.26	44	44.86	216	51.169	132	46.61	106
27	56.194	116	71.56	203	51.835	73	55.40	1	33.82	37	42.70	260	51.037	95	45.55	134
Nov. 6	56.078	68	69.53	236	51.762	28	55.41	10	33.45	29	40.10	297	50.942	53	44.21	162
16	56.010	17	67.17	263	51.734	21	55.51	22	33.16	20	37.13	328	50.889	6	42.59	186
26	55.993	37	64.54	284	51.755	72	55.73	35	32.96	10	33.85	351	50.883	43	40.73	205
Dez. 6	56.030	92	61.70	297	51.827	121	56.08	48	32.86	1	30.34	364	50.926	92	38.68	221
16	56.122	143	58.73	302	51.948	168	56.56	61	32.87	11	26.70	364	51.018	137	36.47	229
26	56.265	189	55.71	295	52.116	208	57.17	70	32.98	22	23.06	354	51.155	179	34.18	229
36	56.454		52.76		52.324		57.87		33.20		19.52		51.334		31.89	
Mittl. Ort	55.007		59.47		49.193		59.49		36.19		27.21		49.159		34.36	
sec δ, tg δ	1.167		+0.601		1.039		−0.280		2.439		+2.224		1.033		+0.258	
a, *a′*	+2.3		−5.4		+3.4		−4.6		+0.2		−4.5		+2.7		−4.2	
b, *b′*	−0.01		+0.96		0.00		+0.97		−0.03		+0.98		0.00		+0.98	

*) Bei Stern 640) lies Juni 10.

Tag	641) δ Herculis AR.		Dekl.		643) π Herculis AR.		Dekl.		644) ϑ Ophiuchi AR.		Dekl.		645) β Arae AR.		Dekl.	
1938	$17^h\ 12^m$		$+24°\ 54'$		$17^h\ 12^m$		$+36°\ 52'$		$17^h\ 18^m$		$-24°\ 56'$		$17^h\ 20^m$		$-55°\ 28'$	
Jan. 1	$28^s.424$	202	$38''.44$	267	$52^s.260$	205	$38''.08$	304	$11^s.750$	238	$17''.17$	15	$7^s.839$	348	$17''.54$	154
11	28.626	237	35.77	249	52.465	247	35.04	281	11.988	271	17.32	25	8.187	401	16.00	128
21	28.863	266	33.28	221	52.712	280	32.23	249	12.259	296	17.57	32	8.588	443	14.72	101
31	29.129	286	31.07	186	52.992	306	29.74	206	12.555	313	17.89	36	9.031	474	13.71	73
Febr. 10	29.415	299	29.21	143	53.298	323	27.68	155	12.868	323	18.25	38	9.505	495	12.98	43
20	29.714	305	27.78	95	53.621	332	26.13	100	13.191	328	18.63	36	10.000	505	12.55	15
März 2	30.019	305	26.83	43	53.953	334	25.13	40	13.519	327	18.99	33	10.505	506	12.40	12
12	30.324	300	26.40	10	54.287	327	24.73	19	13.846	322	19.32	28	11.011	501	12.52	39
22	30.624	289	26.50	60	54.614	315	24.92	78	14.168	313	19.60	23	11.512	487	12.91	64
Apr. 1	30.913	273	27.10	108	54.929	297	25.70	132	14.481	301	19.83	17	11.999	467	13.55	87
11	31.186	254	28.18	151	55.226	273	27.02	180	14.782	285	20.00	13	12.466	441	14.42	108
21	31.440	230	29.69	187	55.499	245	28.82	221	15.067	265	20.13	9	12.907	408	15.50	127
Mai 1	31.670	203	31.56	215	55.744	211	31.03	253	15.332	242	20.22	8	13.315	368	16.77	145
11	31.873	172	33.71	235	55.955	175	33.56	277	15.574	214	20.30	7	13.683	322	18.22	159
21	32.045	138	36.06	248	56.130	135	36.33	290	15.788	184	20.37	7	14.005	270	19.81	170
31	32.183	102	38.54	253	56.265	93	39.23	295	15.972	148	20.44	9	14.275	213	21.51	178
Juni 10	10 32.285	62	41.07	250	10 56.358	48	42.18	292	11 16.120	110	20.53	11	12 14.488	151	23.29	181
19	32.347	23	43.57	240	56.406	3	45.10	280	16.230	70	20.64	12	14.639	84	25.10	180
29	32.370	17	45.97	225	56.409	43	47.90	262	16.300	27	20.76	13	14.723	17	26.90	174
Juli 9	32.353	58	48.22	204	56.366	87	50.52	237	16.327	16	20.89	13	14.740	51	28.64	162
19	32.295	95	50.26	178	56.279	128	52.89	207	16.311	57	21.02	12	14.689	117	30.26	144
29	32.200	131	52.04	149	56.151	166	54.96	173	16.254	96	21.14	8	14.572	177	31.70	122
Aug. 8	32.069	161	53.53	118	55.985	198	56.69	134	16.158	131	21.22	3	14.395	230	32.92	95
18	31.908	185	54.71	83	55.787	225	58.03	93	16.027	160	21.25	2	14.165	273	33.87	63
28	31.723	203	55.54	48	55.562	242	58.96	51	15.867	179	21.23	10	13.892	304	34.50	28
Sept. 7	31.520	211	56.02	10	55.320	252	59.47	6	15.688	190	21.13	19	13.588	320	34.78	9
17	31.309	211	56.12	27	55.068	251	59.53	38	15.498	191	20.94	26	13.268	321	34.69	47
27	31.098	200	55.85	65	54.817	240	59.15	83	15.307	181	20.68	34	12.947	304	34.22	83
Okt. 7	30.898	180	55.20	103	54.577	218	58.32	128	15.126	158	20.34	38	12.643	271	33.39	118
17	30.718	151	54.17	139	54.359	186	57.04	170	14.968	127	19.96	42	12.372	222	32.21	147
27	30.567	114	52.78	173	54.173	147	55.34	209	14.841	87	19.54	42	12.150	161	30.74	171
Nov. 6	30.453	69	51.05	205	54.026	99	53.25	244	14.754	39	19.12	39	11.989	88	29.03	189
16	30.384	21	49.00	233	53.927	45	50.81	275	14.715	12	18.73	33	11.901	8	27.14	199
26	30.363	30	46.67	254	53.882	10	48.06	298	14.727	65	18.40	24	11.893	74	25.15	201
Dez. 6	30.393	81	44.13	269	53.892	67	45.08	313	14.792	118	18.16	13	11.967	156	23.14	196
16	30.474	130	41.44	277	53.959	123	41.95	319	14.910	167	18.03	2	12.123	233	21.18	184
26	30.604	175	38.67	274	54.082	174	38.76	314	15.077	211	18.01	9	12.356	303	19.34	166
36	30.779		35.93		54.256		35.62		15.288		18.10		12.659		17.68	
Mittl. Ort	29.054		39.85		53.216		40.64		11.948		22.02		8.422		25.62	
sec δ, tg δ	1.103		+0.464		1.250		+0.750		1.103		−0.465		1.764		−1.454	
a, *a′*	+2.5		−4.1		+2.1		−4.1		+3.7		−3.6		+5.0		−3.5	
b, *b′*	−0.01		+0.98		−0.01		+0.98		+0.01		+0.98		+0.02		+0.98	

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Tag	648) δ Arae AR.		648) δ Arae Dekl.		651) α Arae AR.		651) α Arae Dekl.		653) β Draconis AR.		653) β Draconis Dekl.		652) λ Scorpii AR.		652) λ Scorpii Dekl.	
1938	$17^h\ 25^m$		$-60°\ 37'$		$17^h\ 27^m$		$-49°\ 49'$		$17^h\ 29^m$		$+52°\ 20'$		$17^h\ 29^m$		$-37°\ 3'$	
Jan. 1	$28.^s98$	38	$56.''30$	182	$2.^s215$	305	$38.''73$	129	$0.^s113$	198	$45.''35$	338	$23.^s398$	254	$31.''83$	62
11	29.36	45	54.48	157	2.520	352	37.44	109	0.311	258	41.97	314	23.652	293	31.21	46
21	29.81	49	52.91	127	2.872	390	36.35	86	0.569	309	38.83	279	23.945	323	30.75	32
31	30.30	54	51.64	96	3.262	418	35.49	61	0.878	351	36.04	233	24.268	345	30.43	18
Febr. 10	30.84	56	50.68	63	3.680	437	34.88	38	1.229	381	33.71	178	24.613	359	30.25	6
20	31.40	57	50.05	31	4.117	447	34.50	15	1.610	401	31.93	117	24.972	368	30.19	5
März 2	31.97	58	49.74	2	4.564	449	34.35	7	2.011	410	30.76	52	25.340	369	30.24	14
12	32.55	57	49.76	32	5.013	445	34.42	28	2.421	408	30.24	13	25.709	365	30.38	23
22	33.12	56	50.08	61	5.458	434	34.70	48	2.829	396	30.37	79	26.074	357	30.61	30
Apr. 1	33.68	54	50.69	89	5.892	419	35.18	67	3.225	375	31.16	140	26.431	345	30.91	37
11	34.22	51	51.58	115	6.311	397	35.85	84	3.600	344	32.56	194	26.776	329	31.28	43
21	34.73	47	52.73	139	6.708	370	36.69	101	3.944	307	34.50	241	27.105	308	31.71	50
Mai 1	35.20	42	54.12	159	7.078	338	37.70	115	4.251	262	36.91	278	27.413	283	32.21	58
11	35.62	37	55.71	177	7.416	298	38.85	128	4.513	213	39.69	307	27.696	252	32.79	63
21	35.99	31	57.48	191	7.714	254	40.13	139	4.726	158	42.76	325	27.948	217	33.42	70
31	36.30	25	59.39	200	7.968	205	41.52	146	4.884	101	46.01	333	28.165	178	34.12	75
Juni 10	36.55	17	61.39	205	8.173	150	42.98	150	4.985	42	49.34	332	28.343	134	34.87	78
19	$_{13}$36.72	10	63.44	205	$_{14}$8.323	92	44.48	151	$_{14}$5.027	19	52.66	321	$_{14}$28.477	88	35.65	81
29	36.82	2	65.49	198	8.415	32	45.99	147	5.008	79	55.87	302	28.565	39	36.46	80
Juli 9	36.84	6	67.47	186	8.447	29	47.46	139	4.929	136	58.89	277	28.604	11	37.26	76
19	36.78	14	69.33	168	8.418	87	48.85	125	4.793	190	61.66	244	28.593	59	38.02	69
29	36.64	21	71.01	143	8.331	142	50.10	107	4.603	238	64.10	207	28.534	104	38.71	60
Aug. 8	36.43	27	72.44	114	8.189	191	51.17	84	4.365	281	66.17	164	28.430	145	39.31	46
18	36.16	32	73.58	79	7.998	231	52.01	57	4.084	315	67.81	119	28.285	179	39.77	30
28	35.84	36	74.37	40	7.767	261	52.58	28	3.769	340	69.00	71	28.106	204	40.07	12
Sept. 7	35.48	37	74.77	0	7.506	277	52.86	4	3.429	354	69.71	21	27.902	218	40.19	8
17	35.11	38	74.77	43	7.229	279	52.82	36	3.075	355	69.92	30	27.684	221	40.11	27
27	34.73	36	74.34	84	6.950	267	52.46	69	2.720	345	69.62	81	27.463	211	39.84	48
Okt. 7	34.37	33	73.50	123	6.683	238	51.77	98	2.375	323	68.81	131	27.252	189	39.36	66
17	34.04	27	72.27	157	6.445	197	50.79	124	2.052	288	67.50	179	27.063	154	38.70	81
27	33.77	20	70.70	187	6.248	144	49.55	146	1.764	243	65.71	225	26.909	111	37.89	92
Nov. 6	33.57	12	68.83	208	6.104	80	48.09	160	1.521	187	63.46	265	26.798	59	36.97	99
16	33.45	3	66.75	221	6.024	10	46.49	170	1.334	124	60.81	300	26.739	2	35.98	101
26	33.42	6	64.54	227	6.014	63	44.79	171	1.210	55	57.81	327	26.737	58	34.97	99
Dez. 6	33.48	16	62.27	223	6.077	135	43.08	166	1.155	16	54.54	345	26.795	116	33.98	92
16	33.64	25	60.04	213	6.212	203	41.42	156	1.171	88	51.09	351	26.911	173	33.06	82
26	33.89	33	57.91	195	6.415	265	39.86	140	1.259	156	47.58	348	27.084	223	32.24	68
36	34.22		55.96		6.680		38.46		1.415		44.10		27.307		31.56	
Mittl. Ort	29.80		64.59		2.679		46.06		1.854		47.48		23.685		37.88	
sec δ, tg δ	2.039		−1.777		1.550		−1.185		1.637		+1.296		1.253		−0.755	
a, *a*′	+5.4		−3.0		+4.6		−2.9		+1.4		−2.7		+4.1		−2.7	
b, *b*′	+0.02		+0.99		+0.01		+0.99		−0.01		+0.99		+0.01		+0.99	

Tag	656) α Ophiuchi AR.		656) α Ophiuchi Dekl.		654) ϑ Scorpii AR.		654) ϑ Scorpii Dekl.		658) ξ Serpentis AR.		658) ξ Serpentis Dekl.		664) ω Draconis AR.		664) ω Draconis Dekl.	
1938	17h 32m		+12° 36′		17h 32m		−42° 57′		17h 34m		−15° 21′		17h 37m		+68° 46′	
	s		″		s		″		s		″		s		″	
Jan. 1	2.868	188	14.16	214	51.222	269	31.70	97	1.836	209	36.79	63	14.87	23	70.77	348
11	3.056	220	12.02	204	51.491	312	30.73	80	2.045	241	37.42	66	15.10	33	67.29	323
21	3.276	247	9.98	185	51.803	345	29.93	62	2.286	266	38.08	66	15.43	43	64.06	289
31	3.523	268	8.13	159	52.148	370	29.31	44	2.552	285	38.74	62	15.86	51	61.17	242
Febr. 10	3.791	281	6.54	127	52.518	387	28.87	26	2.837	298	39.36	53	16.37	57	58.75	186
20	4.072	289	5.27	89	52.905	396	28.61	10	3.135	304	39.89	42	16.94	62	56.89	125
März 2	4.361	291	4.38	48	53.301	399	28.51	5	3.439	306	40.31	29	17.56	64	55.64	58
12	4.652	289	3.90	5	53.700	397	28.56	20	3.745	303	40.60	13	18.20	64	55.06	10
22	4.941	283	3.85	37	54.097	389	28.76	33	4.048	298	40.73	2	18.84	63	55.16	77
Apr. 1	5.224	272	4.22	76	54.486	376	29.09	45	4.346	288	40.71	16	19.47	59	55.93	140
11	5.496	258	4.98	113	54.862	358	29.54	58	4.634	275	40.55	29	20.06	54	57.33	197
21	5.754	239	6.11	143	55.220	336	30.12	70	4.909	258	40.26	39	20.60	48	59.30	246
Mai 1	5.993	218	7.54	168	55.556	308	30.82	80	5.167	238	39.87	47	21.08	39	61.76	286
11	6.211	191	9.22	186	55.864	275	31.62	91	5.405	214	39.40	52	21.47	30	64.62	316
21	6.402	162	11.08	198	56.139	237	32.53	99	5.619	185	38.88	53	21.77	21	67.78	336
31	6.564	129	13.06	203	56.376	194	33.52	106	5.804	153	38.35	53	21.98	11	71.14	345
Juni 10	15 6.693	93	15.09	201	15 56.570	146	34.58	111	15 5.957	117	37.82	51	16 22.09	0	74.59	345
19	6.786	56	17.10	195	56.716	96	35.69	113	6.074	79	37.31	46	22.09	10	78.04	336
29	6.842	16	19.05	184	56.812	42	36.82	112	6.153	39	36.85	41	21.99	20	81.40	317
Juli 9	6.858	23	20.89	168	56.854	12	37.94	107	6.192	3	36.44	37	21.79	29	84.57	292
19	6.835	61	22.57	150	56.842	65	39.01	97	6.189	44	36.07	31	21.50	38	87.49	259
29	6.774	97	24.07	128	56.777	115	39.98	84	6.145	81	35.76	26	21.12	46	90.08	221
Aug. 8	6.677	130	25.35	103	56.662	159	40.82	67	6.064	116	35.50	23	20.66	53	92.29	178
18	6.547	156	26.38	78	56.503	196	41.49	47	5.948	145	35.27	19	20.13	58	94.07	131
28	6.391	175	27.16	52	56.307	223	41.96	23	5.803	166	35.08	17	19.55	61	95.38	81
Sept. 7	6.216	188	27.68	24	56.084	240	42.19	2	5.637	179	34.91	15	18.94	64	96.19	30
17	6.028	191	27.92	5	55.844	244	42.17	28	5.458	183	34.76	14	18.30	65	96.49	23
27	5.837	183	27.87	33	55.600	233	41.89	54	5.275	175	34.62	11	17.65	63	96.26	75
Okt. 7	5.654	167	27.54	62	55.367	210	41.35	78	5.100	158	34.51	7	17.02	60	95.51	128
17	5.487	141	26.92	91	55.157	174	40.57	98	4.942	130	34.44	3	16.42	56	94.23	178
27	5.346	107	26.01	119	54.983	128	39.59	115	4.812	94	34.41	4	15.86	49	92.45	225
Nov. 6	5.239	67	24.82	145	54.855	72	38.44	127	4.718	52	34.45	11	15.37	40	90.20	267
16	5.172	21	23.37	170	54.783	10	37.17	133	4.666	5	34.56	21	14.97	31	87.53	304
26	5.151	26	21.67	190	54.773	55	35.84	133	4.661	45	34.77	32	14.66	20	84.49	333
Dez. 6	5.177	73	19.77	205	54.828	118	34.51	128	4.706	94	35.09	43	14.46	8	81.16	352
16	5.250	119	17.72	215	54.946	179	33.23	119	4.800	140	35.52	52	14.38	4	77.64	360
26	5.369	161	15.57	218	55.125	235	32.04	105	4.940	182	36.04	61	14.42	15	74.04	357
36	5.530		13.39		55.360		30.99		5.122		36.65		14.57		70.47	
Mittl. Ort	3.318		13.19		51.586		38.22		2.076		40.60		18.69		72.47	
sec δ, tg δ	1.025		+0.224		1.367		−0.931		1.037		−0.275		2.764		+2.576	
a, *a′*	+2.8		−2.4		+4.3		−2.4		+3.4		−2.3		−0.4		−2.0	
b, *b′*	0.00		+0.99		+0.01		+0.99		0.00		+0.99		−0.02		+1.00	

Scheinbare Sternörter 1938

Tag	663) ι Herculis AR.		663) ι Herculis Dekl.		661) η Pavonis AR.		661) η Pavonis Dekl.		665) β Ophiuchi AR.		665) β Ophiuchi Dekl.		670) ψ Draconis AR.		670) ψ Draconis Dekl.	
1938	$17^h\ 37^m$		$+46°\ 2'$		$17^h\ 39^m$		$-64°\ 41'$		$17^h\ 40^m$		$+4°\ 35'$		$17^h\ 42^m$		$+72°\ 10'$	
	s		"		s		"		s		"		s		"	
Jan. 1	41.455	180	16.84	328	37.40	39	40.62	213	24.156	183	31.80	171	57.44	22	46.21	348
11	41.635	233	13.56	308	37.79	47	38.49	188	24.339	217	30.09	165	57.66	36	42.73	327
21	41.868	277	10.48	276	38.26	54	36.61	159	24.556	243	28.44	152	58.02	47	39.46	293
31	42.145	314	7.72	233	38.80	59	35.02	127	24.799	262	26.92	132	58.49	58	36.53	247
Febr. 10	42.459	341	5.39	182	39.39	62	33.75	93	25.061	277	25.60	107	59.07	65	34.06	193
20	42.800	360	3.57	124	40.01	64	32.82	59	25.338	285	24.53	76	59.72	71	32.13	132
März 2	43.160	368	2.33	61	40.65	65	32.23	24	25.623	289	23.77	42	60.43	75	30.81	66
12	43.528	369	1.72	3	41.30	66	31.99	11	25.912	288	23.35	7	61.18	75	30.15	2
22	43.897	360	1.75	66	41.96	64	32.10	43	26.200	282	23.28	28	61.93	73	30.17	69
Apr. 1	44.257	344	2.41	126	42.60	62	32.53	76	26.482	274	23.56	62	62.66	70	30.86	132
11	44.601	320	3.67	180	43.22	59	33.29	105	26.756	262	24.18	91	63.36	63	32.18	189
21	44.921	290	5.47	226	43.81	55	34.34	133	27.018	245	25.09	117	63.99	56	34.07	239
Mai 1	45.211	254	7.73	265	44.36	51	35.67	159	27.263	225	26.26	138	64.55	47	36.46	280
11	45.465	212	10.38	294	44.87	44	37.26	180	27.488	201	27.64	152	65.02	35	39.26	310
21	45.677	166	13.32	313	45.31	37	39.06	198	27.689	173	29.16	162	65.37	24	42.36	332
31	45.843	117	16.45	322	45.68	30	41.04	211	27.862	142	30.78	166	65.61	13	45.68	343
Juni 10	45.960	65	19.67	323	45.98	22	43.15	219	28.004	107	32.44	165	65.74	0	49.11	344
19	^{16}46.025	11	22.90	314	^{17}46.20	12	45.34	222	^{17}28.111	70	34.09	159	^{18}65.74	13	52.55	335
29	46.036	42	26.04	298	46.32	4	47.56	218	28.181	31	35.68	150	65.61	24	55.90	318
Juli 9	45.994	94	29.02	274	46.36	5	49.74	208	28.212	9	37.18	137	65.37	35	59.08	294
19	45.900	145	31.76	244	46.31	14	51.82	190	28.203	47	38.55	122	65.02	45	62.02	262
29	45.755	190	34.20	209	46.17	23	53.72	167	28.156	84	39.77	105	64.57	55	64.64	224
Aug. 8	45.565	229	36.29	170	45.94	30	55.39	137	28.072	117	40.82	86	64.02	63	66.88	183
18	45.336	263	37.99	126	45.64	36	56.76	102	27.955	145	41.68	67	63.39	69	68.71	137
28	45.073	287	39.25	81	45.28	41	57.78	61	27.810	166	42.35	46	62.70	74	70.08	87
Sept. 7	44.786	302	40.06	33	44.87	44	58.39	18	27.644	180	42.81	25	61.96	77	70.95	36
17	44.484	305	40.39	17	44.43	44	58.57	26	27.464	183	43.06	4	61.19	78	71.31	16
27	44.179	299	40.22	65	43.99	43	58.31	72	27.281	177	43.10	18	60.41	76	71.15	68
Okt. 7	43.880	279	39.57	114	43.56	39	57.59	116	27.104	162	42.92	40	59.65	73	70.47	121
17	43.601	249	38.43	161	43.17	34	56.43	155	26.942	137	42.52	62	58.92	68	69.26	172
27	43.352	210	36.82	206	42.83	26	54.88	189	26.805	105	41.90	85	58.24	60	67.54	219
Nov. 6	43.142	160	34.76	247	42.57	18	52.99	215	26.700	66	41.05	106	57.64	51	65.35	262
16	42.982	104	32.29	282	42.39	7	50.84	234	26.634	21	39.99	126	57.13	39	62.73	299
26	42.878	44	29.47	309	42.32	3	48.50	245	26.613	25	38.73	145	56.74	27	59.74	329
Dez. 6	42.834	20	26.38	329	42.35	14	46.05	246	26.638	72	37.28	159	56.47	14	56.45	349
16	42.854	82	23.09	339	42.49	24	43.59	239	26.710	118	35.69	168	56.33	0	52.96	359
26	42.936	144	19.70	337	42.73	33	41.20	224	26.828	158	34.01	174	56.33	14	49.37	358
36	43.080		16.33		43.06		38.96		26.986		32.27		56.47		45.79	
Mittl. Ort	42.831		17.86		38.52		48.55		24.524		29.76		62.17		47.30	
sec δ, tg δ	1.441		+1.037		2.340		−2.115		1.003		+0.080		3.268		+3.111	
a, *a′*	+1.7		−1.9		+5.9		−1.8		+3.0		−1.7		−1.1		−1.5	
b, *b′*	−0.01		+1.00		+0.01		+1.00		0.00		+1.00		−0.02		+1.00	

Tag	667) μ Herculis¹) AR.		667) μ Herculis¹) Dekl.		675) 35 Draconis AR.		675) 35 Draconis Dekl.		671) ξ Draconis AR.		671) ξ Draconis Dekl.		672) ϑ Herculis AR.		672) ϑ Herculis Dekl.	
1938	$17^h 44^m$		$+27° 45'$		$17^h 52^m$		$+76° 58'$		$17^h 52^m$		$+56° 52'$		$17^h 54^m$		$+37° 15'$	
Jan. 1	s 1.097	171	" 20.94	278	s 6.46	22	" 20.25	345	s 25.263	166	" 54.58	347	s 6.548	158	" 28.36	308
11	1.268	210	18.16	263	6.68	41	16.80	325	25.429	237	51.11	327	6.706	204	25.28	292
21	1.478	243	15.53	238	7.09	58	13.55	294	25.666	299	47.84	296	6.910	243	22.36	265
31	1.721	269	13.15	203	7.67	72	10.61	251	25.965	352	44.88	253	7.153	275	19.71	228
Febr. 10	1.990	288	11.12	161	8.39	83	8.10	199	26.317	395	42.35	202	7.428	301	17.43	182
20	2.278	301	9.51	113	9.22	93	6.11	139	26.712	425	40.33	142	7.729	318	15.61	129
März 2	2.579	307	8.38	60	10.15	98	4.72	75	27.137	444	38.91	77	8.047	328	14.32	72
12	2.886	306	7.78	6	11.13	100	3.97	9	27.581	450	38.14	11	8.375	332	13.60	12
22	3.192	301	7.72	48	12.13	99	3.88	58	28.031	443	38.03	55	8.707	328	13.48	47
Apr. 1	3.493	291	8.20	99	13.12	93	4.46	122	28.474	426	38.58	119	9.035	318	13.95	104
11	3.784	275	9.19	145	14.05	86	5.68	179	28.900	398	39.77	178	9.353	301	14.99	157
21	4.059	255	10.64	185	14.91	75	7.47	229	29.298	360	41.55	228	9.654	279	16.56	202
Mai 1	4.314	229	12.49	219	15.66	63	9.76	272	29.658	314	43.83	271	9.933	252	18.58	241
11	4.543	200	14.68	243	16.29	48	12.48	305	29.972	261	46.54	303	10.185	218	20.99	269
21	4.743	167	17.11	260	16.77	33	15.53	327	30.233	201	49.57	327	10.403	181	23.68	290
31	4.910	130	19.71	268	17.10	17	18.80	340	30.434	137	52.84	340	10.584	140	26.58	302
Juni 10	5.040	90	22.39	269	17.27	1	22.20	343	30.571	70	56.24	343	10.724	94	29.60	305
19*)	^{18}5.130	48	25.08	262	^{20}17.26	17	25.63	336	30.641	2	59.67	337	10.818	48	32.65	299
29	5.178	5	27.70	248	17.09	33	28.99	322	^{20}30.643	66	63.04	322	^{21}10.866	0	35.64	286
Juli 9	5.183	38	30.18	229	16.76	48	32.21	299	30.577	133	66.26	300	10.866	48	38.50	266
19	5.145	80	32.47	205	16.28	63	35.20	269	30.444	196	69.26	271	10.818	94	41.16	240
29	5.065	119	34.52	176	15.65	75	37.89	234	30.248	254	71.97	236	10.724	137	43.56	209
Aug. 8	4.946	154	36.28	143	14.90	86	40.23	194	29.994	304	74.33	195	10.587	177	45.65	174
18	4.792	183	37.71	109	14.04	95	42.17	149	29.690	347	76.28	150	10.410	209	47.39	135
28	4.609	205	38.80	71	13.09	101	43.66	101	29.343	379	77.78	103	10.201	234	48.74	93
Sept. 7	4.404	219	39.51	33	12.08	106	44.67	51	28.964	399	78.81	53	9.967	251	49.67	50
17	4.185	223	39.84	6	11.02	108	45.18	0	28.565	408	79.34	1	9.716	257	50.17	5
27	3.962	218	39.78	47	9.94	106	45.18	53	28.157	403	79.35	51	9.459	254	50.22	41
Okt. 7	3.744	202	39.31	86	8.88	103	44.65	105	27.754	384	78.84	103	9.205	240	49.81	87
17	3.542	177	38.45	126	7.85	96	43.60	155	27.370	352	77.81	155	8.965	215	48.94	131
27	3.365	143	37.19	163	6.89	87	42.05	203	27.018	308	76.26	202	8.750	181	47.63	173
Nov. 6	3.222	103	35.56	198	6.02	75	40.02	247	26.710	253	74.24	246	8.569	139	45.90	213
16	3.119	55	33.58	228	5.27	61	37.55	285	26.457	187	71.78	286	8.430	90	43.77	249
26	3.064	6	31.30	253	4.66	44	34.70	317	26.270	115	68.92	317	8.340	37	41.28	277
Dez. 6	3.058	45	28.77	272	4.22	27	31.53	339	26.155	38	65.75	340	8.303	18	38.51	298
16	3.103	95	26.05	282	3.95	8	28.14	351	26.117	41	62.35	353	8.321	72	35.53	311
26	3.198	142	23.23	284	3.87	12	24.63	352	26.158	119	58.82	353	8.393	126	32.42	313
36	3.340		20.39		3.99		21.11		26.277		55.29		8.519		29.29	
Mittl. Ort	1.836		20.53		13.28		20.29		27.387		54.50		7.568		27.57	
sec δ, tg δ	1.130		+0.526		4.436		+4.322		1.830		+1.533		1.256		+0.761	
a, *a′*	+2.4		−1.4		−2.7		−0.7		+1.0		−0.7		+2.1		−0.5	
b, *b′*	0.00		+1.00		−0.01		+1.00		0.00		+1.00		0.00		+1.00	

¹) Die jährliche Parallaxe (0″111) ist bereits berücksichtigt.

*) Bei Stern 675), 671) und 672) lies Juni 20.

Scheinbare Sternörter 1938

Tag	676) γ Draconis AR.		676) γ Draconis Dekl.		673) ν Ophiuchi AR.		673) ν Ophiuchi Dekl.		677) 67 Ophiuchi AR.		677) 67 Ophiuchi Dekl.		679) γ Sagittarii AR.		679) γ Sagittarii Dekl.	
1938	17h 55m		+51° 29′		17h 55m		−9° 45′		17h 57m		+2° 55′		18h 1m		−30° 25′	
	s		″		s		″		s		″		s		″	
Jan. 1	8.243	159	43.97	340	36.445	182	59.90	86	31.980	170	61.51	158	49.108	205	31.62	40
11	8.402	219	40.57	322	36.627	216	60.76	87	32.150	203	59.93	153	49.313	243	31.22	32
21	8.621	273	37.35	292	36.843	243	61.63	83	32.353	230	58.40	142	49.556	274	30.90	26
31	8.894	319	34.43	251	37.086	264	62.46	74	32.583	253	56.98	124	49.830	299	30.64	19
Febr. 10	9.213	355	31.92	201	37.350	279	63.20	60	32.836	269	55.74	101	50.129	317	30.45	15
20	9.568	381	29.91	142	37.629	290	63.80	43	33.105	279	54.73	72	50.446	330	30.30	12
März 2	9.949	397	28.49	80	37.919	294	64.23	24	33.384	286	54.01	39	50.776	336	30.18	11
12	10.346	403	27.69	14	38.213	296	64.47	4	33.670	288	53.62	6	51.112	340	30.07	8
22	10.749	398	27.55	51	38.509	294	64.51	18	33.958	285	53.56	27	51.452	337	29.99	8
Apr. 1	11.147	384	28.06	114	38.803	287	64.33	38	34.243	280	53.83	59	51.789	332	29.91	7
11	11.531	361	29.20	171	39.090	278	63.95	55	34.523	269	54.42	88	52.121	321	29.84	5
21	11.892	330	30.91	222	39.368	264	63.40	70	34.792	256	55.30	113	52.442	307	29.79	2
Mai 1	12.222	291	33.13	263	39.632	246	62.70	81	35.048	238	56.43	134	52.749	288	29.77	3
11	12.513	246	35.76	296	39.878	224	61.89	89	35.286	215	57.77	148	53.037	264	29.80	9
21	12.759	195	38.72	320	40.102	197	61.00	92	35.501	189	59.25	157	53.301	234	29.89	16
31	12.954	140	41.92	333	40.299	167	60.08	92	35.690	158	60.82	162	53.535	199	30.05	22
Juni 10	13.094	81	45.25	336	40.466	133	59.16	90	35.848	124	62.44	160	53.734	161	30.27	30
20	21 13.175	22	48.61	331	21 40.599	94	58.26	84	21 35.972	87	64.04	156	22 53.895	117	30.57	35
29	13.197	39	51.92	317	40.693	55	57.42	77	36.059	47	65.60	146	54.012	71	30.92	41
Juli 9	13.158	98	55.09	296	40.748	14	56.65	68	36.106	7	67.06	134	54.083	24	31.33	45
19	13.060	155	58.05	267	40.762	28	55.97	59	36.113	33	68.40	119	54.107	23	31.78	45
29	12.905	207	60.72	233	40.734	67	55.38	50	36.080	72	69.59	103	54.084	70	32.23	43
Aug. 8	12.698	254	63.05	194	40.667	103	54.88	40	36.008	106	70.62	85	54.014	112	32.66	38
18	12.444	292	64.99	151	40.564	134	54.48	31	35.902	137	71.47	67	53.902	148	33.04	31
28	12.152	322	66.50	104	40.430	158	54.17	23	35.765	160	72.14	47	53.754	177	33.35	22
Sept. 7	11.830	342	67.54	56	40.272	174	53.94	15	35.605	176	72.61	28	53.577	196	33.57	9
17	11.488	350	68.10	5	40.098	181	53.79	8	35.429	183	72.89	8	53.381	205	33.66	3
27	11.138	346	68.15	47	39.917	177	53.71	0	35.246	179	72.97	12	53.176	203	33.63	18
Okt. 7	10.792	329	67.68	97	39.740	164	53.71	9	35.067	167	72.85	33	52.973	188	33.45	30
17	10.463	301	66.71	147	39.576	140	53.80	18	34.900	144	72.52	53	52.785	162	33.15	42
27	10.162	262	65.24	195	39.436	109	53.98	27	34.756	114	71.99	74	52.623	126	32.73	51
Nov. 6	9.900	212	63.29	238	39.327	69	54.25	38	34.642	77	71.25	94	52.497	82	32.22	57
16	9.688	153	60.91	277	39.258	25	54.63	50	34.565	34	70.31	114	52.415	33	31.65	60
26	9.535	89	58.14	308	39.233	22	55.13	61	34.531	11	69.17	130	52.382	20	31.05	60
Dez. 6	9.446	21	55.06	332	39.255	68	55.74	72	34.542	57	67.87	145	52.402	75	30.45	56
16	9.425	49	51.74	344	39.323	114	56.46	80	34.599	102	66.42	155	52.477	126	29.89	51
26	9.474	117	48.30	347	39.437	156	57.26	86	34.701	144	64.87	160	52.603	173	29.38	44
36	9.591		44.83		39.593		58.12		34.845		63.27		52.776		28.94	
Mittl. Ort	9.948		43.52		36.736		63.45		32.353		58.75		49.425		36.53	
sec δ, tg δ	1.606		+1.257		1.015		−0.172		1.001		+0.051		1.160		−0.587	
a, *a′*	+1.4		−0.4		+3.3		−0.4		+3.0		−0.2		+3.9		+0.2	
b, *b′*	0.00		+1.00		0.00		+1.00		0.00		+1.00		0.00		+1.00	

Tag	680) 72 Ophiuchi AR.		Dekl.		681) ο Herculis AR.		Dekl.		682) μ Sagittarii AR.		Dekl.		688) η Serpentis AR.		Dekl.	
1938	$18^h\ 4^m$		$+9°\ 33'$		$18^h\ 5^m$		$+28°\ 44'$		$18^h\ 10^m$		$-21°\ 4'$		$18^h\ 18^m$		$-2°\ 54'$	
	s		"		s		"		s		"		s		"	
Jan. 1	24.132	159	15.48	192	6.634	147	71.38	279	2.990	182	32.52	12	5.712	153	55.81	122
11	24.291	193	13.56	184	6.781	189	68.59	266	3.172	217	32.64	16	5.865	189	57.03	118
21	24.484	222	11.72	170	6.970	225	65.93	243	3.389	248	32.80	17	6.054	217	58.21	110
31	24.706	246	10.02	148	7.195	254	63.50	212	3.637	271	32.97	16	6.271	241	59.31	97
Febr. 10	24.952	264	8.54	120	7.449	276	61.38	172	3.908	289	33.13	13	6.512	259	60.28	78
20	25.216	277	7.34	86	7.725	294	59.66	124	4.197	301	33.26	6	6.771	273	61.06	55
März 2	25.493	284	6.48	49	8.019	304	58.42	72	4.498	309	33.32	2	7.044	282	61.61	29
12	25.777	287	5.99	9	8.323	308	57.70	17	4.807	313	33.30	11	7.326	287	61.90	2
22	26.064	286	5.90	31	8.631	307	57.53	37	5.120	313	33.19	20	7.613	288	61.92	26
Apr. 1	26.350	281	6.21	69	8.938	301	57.90	89	5.433	309	32.99	28	7.901	285	61.66	53
11	26.631	272	6.90	104	9.239	289	58.79	138	5.742	301	32.71	35	8.186	279	61.13	77
21	26.903	258	7.94	133	9.528	271	60.17	181	6.043	289	32.36	40	8.465	268	60.36	98
Mai 1	27.161	240	9.27	159	9.799	249	61.98	216	6.332	272	31.96	42	8.733	253	59.38	114
11	27.401	218	10.86	178	10.048	222	64.14	245	6.604	251	31.54	41	8.986	233	58.24	126
21	27.619	191	12.64	189	10.270	189	66.59	264	6.855	224	31.13	39	9.219	208	56.98	133
31	27.810	160	14.53	196	10.459	153	69.23	275	7.079	192	30.74	35	9.427	179	55.65	135
Juni 10	27.970	125	16.49	197	10.612	113	71.98	279	7.271	157	30.39	29	9.606	146	54.30	133
20	28.095	88	18.46	192	10.725	71	74.77	275	7.428	117	30.10	22	9.752	109	52.97	127
29	[23] 28.183	47	20.38	182	[23] 10.796	26	77.52	264	[25] 7.545	75	29.88	16	[27] 9.861	69	51.70	119
Juli 9	28.230	7	22.20	168	10.822	18	80.16	246	7.620	31	29.72	8	9.930	28	50.51	108
19	28.237	34	23.88	151	10.804	62	82.62	224	7.651	15	29.64	3	9.958	14	49.43	95
29	28.203	73	25.39	131	10.742	104	84.86	197	7.636	58	29.61	1	9.944	55	48.48	81
Aug. 8	28.130	108	26.70	110	10.638	142	86.83	165	7.578	97	29.62	4	9.889	92	47.67	66
18	28.022	140	27.80	87	10.496	175	88.48	130	7.481	132	29.66	5	9.797	125	47.01	51
28	27.882	164	28.67	62	10.321	200	89.78	94	7.349	160	29.71	4	9.672	151	46.50	37
Sept. 7	27.718	180	29.29	36	10.121	217	90.72	55	7.189	179	29.75	1	9.521	170	46.13	22
17	27.538	188	29.65	11	9.904	226	91.27	15	7.010	189	29.76	2	9.351	180	45.91	7
27	27.350	186	29.76	15	9.678	224	91.42	26	6.821	187	29.74	6	9.171	181	45.84	7
Okt. 7	27.164	174	29.61	41	9.454	212	91.16	66	6.634	176	29.68	10	8.990	171	45.91	22
17	26.990	154	29.20	68	9.242	191	90.50	107	6.458	153	29.58	13	8.819	151	46.13	36
27	26.836	124	28.52	94	9.051	160	89.43	147	6.305	121	29.45	13	8.668	124	46.49	52
Nov. 6	26.712	88	27.58	118	8.891	122	87.96	182	6.184	82	29.32	13	8.544	88	47.01	68
16	26.624	46	26.40	141	8.769	78	86.14	215	6.102	37	29.19	11	8.456	47	47.69	82
26	26.578	1	24.99	162	8.691	29	83.99	243	6.065	12	29.08	6	8.409	4	48.51	95
Dez. 6	26.577	44	23.37	178	8.662	21	81.56	265	6.077	61	29.02	1	8.405	42	49.46	108
16	26.621	90	21.59	189	8.683	70	78.91	278	6.138	109	29.01	5	8.447	85	50.54	117
26	26.711	132	19.70	193	8.753	118	76.13	282	6.247	153	29.06	11	8.532	127	51.71	122
36	26.843		17.77		8.871		73.31		6.400		29.17		8.659		52.93	
Mittl. Ort	24.578		12.82		7.411		69.45		3.286		36.80		6.058		59.41	
sec δ, tg δ	1.014		+0.168		1.141		+0.549		1.072		−0.385		1.001		−0.051	
a, *a′*	+2.8		+0.4		+2.3		+0.4		+3.6		+0.9		+3.1		+1.6	
b, *b′*	0.00		+1.00		0.00		+1.00		0.00		+1.00		0.00		+1.00	

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Tag		689) ε Sagittarii AR.		689) ε Sagittarii Dekl.		690) 109 Herculis AR.		690) 109 Herculis Dekl.		695) χ Draconis[1]) AR.		695) χ Draconis[1]) Dekl.		691) α Telescopii AR.		691) α Telescopii Dekl.	
1938		18h 20m		−34° 24′		18h 21m		+21° 44′		18h 22m		+72° 42′		18h 22m		−46° 0′	
		s		"		s		"		s		"		s		"	
Jan.	1	3.015	192	52.20	74	2.696	136	27.26	248	5.72	11	26.25	352	22.030	215	11.34	144
	11	3.207	233	51.46	66	2.832	174	24.78	239	5.83	26	22.73	339	22.245	265	9.90	134
	21	3.440	268	50.80	60	3.006	208	22.39	221	6.09	38	19.34	315	22.510	307	8.56	121
	31	3.708	296	50.20	52	3.214	236	20.18	194	6.47	50	16.19	279	22.817	343	7.35	107
Febr.	10	4.004	318	49.68	46	3.450	259	18.24	159	6.97	60	13.40	232	23.160	369	6.28	91
	20	4.322	334	49.22	40	3.709	276	16.65	118	7.57	68	11.08	176	23.529	390	5.37	75
März	2	4.656	345	48.82	34	3.985	289	15.47	71	8.25	74	9.32	114	23.919	404	4.62	59
	12	5.001	351	48.48	30	4.274	295	14.76	22	8.99	77	8.18	48	24.323	411	4.03	42
	22	5.352	353	48.18	24	4.569	297	14.54	27	9.76	77	7.70	20	24.734	414	3.61	25
Apr.	1	5.705	350	47.94	19	4.866	294	14.81	76	10.53	76	7.90	85	25.148	411	3.36	8
	11	6.055	342	47.75	13	5.160	286	15.57	121	11.29	71	8.75	146	25.559	401	3.28	9
	21	6.397	330	47.62	4	5.446	273	16.78	160	12.00	65	10.21	202	25.960	386	3.37	27
Mai	1	6.727	312	47.58	4	5.719	254	18.38	193	12.65	57	12.23	249	26.346	366	3.64	45
	11	7.039	289	47.62	14	5.973	232	20.31	220	13.22	47	14.72	289	26.712	337	4.09	63
	21	7.328	260	47.76	24	6.205	203	22.51	239	13.69	36	17.61	318	27.049	302	4.72	80
	31	7.588	226	48.00	35	6.408	170	24.90	250	14.05	24	20.79	337	27.351	261	5.52	94
Juni	10	7.814	185	48.35	45	6.578	134	27.40	255	14.29	12	24.16	348	27.612	214	6.46	108
	20	27 7.999	141	48.80	54	27 6.712	94	29.95	251	28 14.41	1	27.64	348	28 27.826	161	7.54	119
	29	8.140	93	49.34	61	6.806	51	32.46	242	14.40	14	31.12	339	27.987	104	8.73	125
Juli	9	8.233	42	49.95	65	6.857	8	34.88	227	14.26	26	34.51	323	28.091	45	9.98	128
	19	8.275	8	50.60	68	6.865	35	37.15	207	14.00	37	37.74	299	28.136	15	11.26	126
	29	8.267	58	51.28	66	6.830	77	39.22	184	13.63	48	40.73	268	28.121	74	12.52	120
Aug.	8	8.209	104	51.94	61	6.753	115	41.06	156	13.15	57	43.41	231	28.047	127	13.72	108
	18	8.105	144	52.55	53	6.638	149	42.62	125	12.58	66	45.72	190	27.920	175	14.80	91
	28	7.961	178	53.08	41	6.489	176	43.87	94	11.92	72	47.62	144	27.745	215	15.71	70
Sept.	7	7.783	201	53.49	26	6.313	195	44.81	59	11.20	77	49.06	95	27.530	243	16.41	45
	17	7.582	214	53.75	10	6.118	206	45.40	24	10.43	79	50.01	44	27.287	259	16.86	17
	27	7.368	215	53.85	8	5.912	207	45.64	11	9.64	80	50.45	9	27.028	260	17.03	12
Okt.	7	7.153	203	53.77	26	5.705	197	45.53	48	8.84	78	50.36	63	26.768	248	16.91	41
	17	6.950	180	53.51	43	5.508	179	45.05	84	8.06	74	49.73	115	26.520	221	16.50	69
	27	6.770	146	53.08	57	5.329	152	44.21	119	7.32	68	48.58	167	26.299	183	15.81	94
Nov.	6	6.624	103	52.51	68	5.177	117	43.02	152	6.64	61	46.91	216	26.116	133	14.87	117
	16	6.521	54	51.83	77	5.060	76	41.50	183	6.03	50	44.75	259	25.983	75	13.70	133
	26	6.467	0	51.06	82	4.984	31	39.67	209	5.53	38	42.16	297	25.908	12	12.37	144
Dez.	6	6.467	55	50.24	82	4.953	15	37.58	229	5.15	26	39.19	327	25.896	52	10.93	150
	16	6.522	108	49.42	81	4.968	62	35.29	244	4.89	12	35.92	346	25.948	116	9.43	151
	26	6.630	159	48.61	76	5.030	106	32.85	250	4.77	2	32.46	354	26.064	176	7.92	147
	36	6.789		47.85		5.136		30.35		4.79		28.92		26.240		6.45	
Mittl. Ort		3.393		56.94		3.326		24.14		10.58		23.09		22.581		16.42	
sec δ, tg δ		1.212		−0.685		1.077		+0.399		3.364		+3.212		1.440		−1.036	
a, *a′*		+4.0		+1.8		+2.5		+1.8		−1.2		+1.9		+4.5		+2.0	
b, *b′*		0.00		+1.00		0.00		+1.00		+0.02		+1.00		−0.01		+1.00	

[1]) Die jährliche Parallaxe (0"118) ist bereits berücksichtigt.

Tag	694) *b* Draconis AR.		Dekl.		699) α Lyrae¹) AR.		Dekl.		698) ζ Pavonis AR.		Dekl.		703) 110 Herculis AR.		Dekl.	
1938	18ʰ 22ᵐ		+58° 45′		18ʰ 34ᵐ		+38° 43′		18ʰ 35ᵐ		−71° 28′		18ʰ 42ᵐ		+20° 28′	
	s		″		s		″		s		″		s		″	
Jan. 1	58.043	112	54.48	348	49.284	111	33.46	307	45.79	33	59.86	278	58.966	114	72.52	238
11	58.155	190	51.00	337	49.395	160	30.39	298	46.12	46	57.08	265	59.080	152	70.14	231
21	58.345	260	47.63	313	49.555	204	27.41	277	46.58	56	54.43	244	59.232	187	67.83	217
31	58.605	323	44.50	276	49.759	243	24.64	247	47.14	65	51.99	218	59.419	217	65.66	192
Febr. 10	58.928	376	41.74	229	50.002	274	22.17	206	47.79	72	49.81	187	59.636	242	63.74	161
20	59.304	418	39.45	174	50.276	301	20.11	156	48.51	78	47.94	154	59.878	263	62.13	121
März 2	59.722	448	37.71	112	50.577	319	18.55	101	49.29	82	46.40	117	60.141	278	60.92	77
12	60.170	465	36.59	46	50.896	332	17.54	43	50.11	84	45.23	80	60.419	289	60.15	29
22	60.635	469	36.13	21	51.228	336	17.11	18	50.95	85	44.43	41	60.708	294	59.86	19
Apr. 1	61.104	460	36.34	86	51.564	335	17.29	77	51.80	85	44.02	3	61.002	296	60.05	66
11	61.564	439	37.20	147	51.899	325	18.06	132	52.65	83	43.99	36	61.298	291	60.71	111
21	62.003	408	38.67	203	52.224	310	19.38	183	53.48	80	44.35	74	61.589	281	61.82	151
Mai 1	62.411	366	40.70	250	52.534	288	21.21	226	54.28	75	45.09	110	61.870	267	63.33	185
11	62.777	314	43.20	289	52.822	259	23.47	261	55.03	69	46.19	143	62.137	247	65.18	213
21	63.091	256	46.09	318	53.081	224	26.08	288	55.72	60	47.62	173	62.384	221	67.31	234
31	63.347	191	49.27	338	53.305	184	28.96	305	56.32	52	49.35	200	62.605	190	69.65	247
Juni 10	63.538	121	52.65	348	53.489	140	32.01	315	56.84	41	51.35	220	62.795	155	72.12	252
20	28 63.659	49	56.13	348	53.629	93	35.16	316	57.25	30	53.55	236	62.950	116	74.64	251
29*)	63.708	25	59.61	339	53.722	42	38.32	308	57.55	18	55.91	245	63.066	74	77.15	243
Juli 9	63.683	98	63.00	323	1 53.764	9	41.40	293	1 57.73	5	58.36	245	3 63.140	30	79.58	231
19	63.585	167	66.23	299	53.755	58	44.33	271	57.78	7	60.81	239	63.170	15	81.89	212
29	63.418	233	69.22	268	53.697	107	47.04	244	57.71	20	63.20	225	63.155	57	84.01	190
Aug. 8	63.185	292	71.90	231	53.590	151	49.48	212	57.51	31	65.45	203	63.098	97	85.91	165
18	62.893	343	74.21	190	53.439	190	51.60	175	57.20	42	67.48	172	63.001	134	87.56	135
28	62.550	383	76.11	145	53.249	222	53.35	136	56.78	50	69.20	135	62.867	163	88.91	104
Sept. 7	62.167	413	77.56	96	53.027	245	54.71	93	56.28	57	70.55	92	62.704	186	89.95	72
17	61.754	430	78.52	45	52.782	260	55.64	47	55.71	60	71.47	45	62.518	200	90.67	38
27	61.324	433	78.97	8	52.522	263	56.11	2	55.11	62	71.92	5	62.318	204	91.05	3
Okt. 7	60.891	422	78.89	61	52.259	255	56.13	45	54.49	60	71.87	57	62.114	198	91.08	32
17	60.469	397	78.28	114	52.004	239	55.68	92	53.89	56	71.30	107	61.916	184	90.76	68
27	60.072	359	77.14	165	51.765	211	54.76	137	53.33	49	70.23	153	61.732	160	90.08	102
Nov. 6	59.713	308	75.49	214	51.554	174	53.39	180	52.84	39	68.70	195	61.572	128	89.06	135
16	59.405	248	73.35	257	51.380	131	51.59	220	52.45	28	66.75	229	61.444	91	87.71	165
26	59.157	177	70.78	294	51.249	82	49.39	253	52.17	15	64.46	256	61.353	49	86.06	193
Dez. 6	58.980	100	67.84	324	51.167	30	46.86	281	52.02	2	61.90	274	61.304	4	84.13	214
16	58.880	20	64.60	343	51.137	24	44.05	300	52.00	12	59.16	282	61.300	41	81.99	230
26	58.860	62	61.17	351	51.161	77	41.05	308	52.12	25	56.34	281	61.341	85	79.69	239
36	58.922		57.66		51.238		37.97		52.37		53.53		61.426		77.30	
Mittl. Ort	60.327		51.31		50.341		29.51		47.95		65.04		59.565		68.15	
sec δ, tg δ	1.928		+1.649		1.282		+0.802		3.149		−2.986		1.068		+0.374	
a, *a′*	+0.8		+2.0		+2.0		+3.0		+7.0		+3.1		+2.6		+3.7	
b, *b′*	+0.01		+0.99		+0.01		+0.99		−0.03		+0.99		0.00		+0.98	

¹) Die jährliche Parallaxe (0″124) ist bereits berücksichtigt.

*) Bei Stern 699), 698) und 703) lies Juni 30.

Scheinbare Sternörter 1938

Tag	704) λ Pavonis AR.		Dekl.		705) β Lyrae AR.		Dekl.		707) ο Draconis AR.		Dekl.		706) σ Sagittarii AR.		Dekl.	
1938	18ʰ 46ᵐ		−62° 15′		18ʰ 47ᵐ		+33° 17′		18ʰ 50ᵐ		+59° 18′		18ʰ 51ᵐ		−26° 22′	
	s		″		s		″		s		″		s		″	
Jan. 1	27.36	23	36.29	242	46.563	99	27.59	287	15.007	62	49.44	346	24.925	145	28.31	37
11	27.59	31	33.87	233	46.662	143	24.72	282	15.069	142	45.98	340	25.070	184	27.94	35
21	27.90	39	31.54	218	46.805	184	21.90	265	15.211	216	42.58	323	25.254	218	27.59	35
31	28.29	44	29.36	198	46.989	221	19.25	237	15.427	285	39.35	293	25.472	247	27.24	36
Febr. 10	28.73	50	27.38	174	47.210	252	16.88	200	15.712	346	36.42	251	25.719	272	26.88	37
20	29.23	53	25.64	148	47.462	277	14.88	155	16.058	395	33.91	200	25.991	290	26.51	40
März 2	29.76	56	24.16	120	47.739	297	13.33	104	16.453	434	31.91	142	26.281	306	26.11	45
12	30.32	59	22.96	89	48.036	310	12.29	49	16.887	461	30.49	78	26.587	316	25.66	48
22	30.91	59	22.07	58	48.346	318	11.80	9	17.348	474	29.71	11	26.903	323	25.18	52
Apr. 1	31.50	60	21.49	27	48.664	320	11.89	65	17.822	475	29.60	55	27.226	326	24.66	54
11	32.10	58	21.22	6	48.984	315	12.54	118	18.297	463	30.15	117	27.552	324	24.12	55
21	32.68	57	21.28	38	49.299	303	13.72	166	18.760	439	31.32	176	27.876	318	23.57	54
Mai 1	33.25	55	21.66	70	49.602	285	15.38	209	19.199	403	33.08	228	28.194	307	23.03	50
11	33.80	50	22.36	100	49.887	262	17.47	244	19.602	357	35.36	271	28.501	289	22.53	45
21	34.30	45	23.36	128	50.149	232	19.91	270	19.959	302	38.07	305	28.790	266	22.08	36
31	34.75	40	24.64	153	50.381	197	22.61	289	20.261	239	41.12	331	29.056	238	21.72	27
Juni 10	35.15	33	26.17	175	50.578	157	25.50	299	20.500	171	44.43	347	29.294	202	21.45	16
20	35.48	25	27.92	191	50.735	112	28.49	300	20.671	98	47.90	353	29.496	163	21.29	4
30	35.73	16	29.83	202	50.847	66	31.49	295	20.769	23	51.43	350	29.659	119	21.25	7
Juli 9	$_{4}$35.89	8	31.85	208	$_{4}$50.913	17	34.44	283	$_{5}$20.792	53	54.93	339	$_{5}$29.778	72	21.32	17
19	35.97	1	33.93	206	50.930	31	37.27	263	20.739	126	58.32	319	29.850	23	21.49	25
29	35.96	10	35.99	197	50.899	78	39.90	238	20.613	197	61.51	293	29.873	24	21.74	32
Aug. 8	35.86	17	37.96	181	50.821	121	42.28	209	20.416	261	64.44	261	29.849	70	22.06	35
18	35.69	25	39.77	158	50.700	161	44.37	175	20.155	318	67.05	223	29.779	111	22.41	36
28	35.44	32	41.35	128	50.539	193	46.12	138	19.837	365	69.28	180	29.668	146	22.77	34
Sept. 7	35.12	37	42.63	93	50.346	218	47.50	98	19.472	402	71.08	134	29.522	173	23.11	29
17	34.75	39	43.56	53	50.128	233	48.48	57	19.070	427	72.42	83	29.349	191	23.40	21
27	34.36	41	44.09	10	49.895	239	49.05	14	18.643	437	73.25	32	29.158	197	23.61	13
Okt. 7	33.95	40	44.19	35	49.656	235	49.19	30	18.206	434	73.57	22	28.961	192	23.74	2
17	33.55	37	43.84	79	49.421	221	48.89	74	17.772	417	73.35	76	28.769	176	23.76	7
27	33.18	33	43.05	120	49.200	197	48.15	117	17.355	386	72.59	129	28.593	150	23.69	16
Nov. 6	32.85	26	41.85	157	49.003	164	46.98	159	16.969	342	71.30	180	28.443	116	23.53	25
16	32.59	19	40.28	189	48.839	125	45.39	196	16.627	286	69.50	227	28.327	74	23.28	30
26	32.40	10	38.39	214	48.714	80	43.43	230	16.341	221	67.23	270	28.253	28	22.98	34
Dez. 6	32.30	0	36.25	231	48.634	32	41.13	258	16.120	149	64.53	304	28.225	21	22.64	36
16	32.30	8	33.94	240	48.602	17	38.55	277	15.971	70	61.49	330	28.246	68	22.28	36
26	32.38	18	31.54	243	48.619	67	35.78	288	15.901	10	58.19	344	28.314	115	21.92	36
36	32.56		29.11		48.686		32.90		15.911		54.75		28.429		21.56	
Mittl. Ort	28.60		40.65		47.435		22.64		17.277		43.50		25.276		32.28	
sec δ, tg δ	2.149		−1.902		1.196		+0.657		1.959		+1.685		1.116		−0.496	
a, *a′*	+5.6		+4.0		+2.2		+4.1		+0.8		+4.4		+3.7		+4.5	
b, *b′*	−0.03		+0.98		+0.01		+0.98		+0.02		+0.98		−0.01		+0.97	

Obere Kulmination Greenwich

Tag	709) ϑ Serpent. pr. AR.		Dekl.		711) *R* Lyrae AR.		Dekl.		708) λ Telescopii AR.		Dekl.		713) γ Lyrae AR.		Dekl.	
1938	18h 53m		+4° 7′		18h 53m		+43° 51′		18h 53m		−53° 1′		18h 56m		+32° 36′	
	s		″		s		″		s		″		s		″	
Jan. 1	7.834	115	21.39	150	25.710	80	53.94	319	29.544	187	13.96	197	36.584	89	17.59	283
11	7.949	152	19.89	145	25.790	135	50.75	313	29.731	248	11.99	191	36.673	134	14.76	278
21	8.101	183	18.44	136	25.925	185	47.62	296	29.979	301	10.08	181	36.807	174	11.98	263
31	8.284	211	17.08	120	26.110	229	44.66	268	30.280	348	8.27	167	36.981	211	9.35	237
Febr. 10	8.495	233	15.88	97	26.339	269	41.98	229	30.628	386	6.60	150	37.192	243	6.98	202
20	8.728	253	14.91	70	26.608	302	39.69	181	31.014	416	5.10	132	37.435	270	4.96	158
März 2	8.981	267	14.21	38	26.910	327	37.88	125	31.430	441	3.78	112	37.705	291	3.38	108
12	9.248	277	13.83	4	27.237	345	36.63	66	31.871	457	2.66	89	37.996	306	2.30	53
22	9.525	285	13.79	30	27.582	355	35.97	4	32.328	466	1.77	67	38.302	315	1.77	3
Apr. 1	9.810	287	14.09	64	27.937	358	35.93	58	32.794	470	1.10	42	38.617	318	1.80	59
11	10.097	286	14.73	95	28.295	352	36.51	116	33.264	467	0.68	18	38.935	316	2.39	112
21	10.383	281	15.68	122	28.647	339	37.67	171	33.731	456	0.50	8	39.251	306	3.51	161
Mai 1	10.664	269	16.90	145	28.986	318	39.38	219	34.187	437	0.58	33	39.557	290	5.12	203
11	10.933	252	18.35	163	29.304	288	41.57	258	34.624	410	0.91	59	39.847	267	7.15	239
21	11.185	231	19.98	174	29.592	253	44.15	290	35.034	374	1.50	83	40.114	240	9.54	267
31	11.416	205	21.72	180	29.845	211	47.05	312	35.408	331	2.33	106	40.354	205	12.21	286
Juni 10	11.621	172	23.52	182	30.056	164	50.17	326	35.739	279	3.39	127	40.559	166	15.07	297
20	11.793	136	25.34	177	30.220	113	53.43	330	36.018	220	4.66	143	40.725	122	18.04	300
30	11.929	96	27.11	168	30.333	59	56.73	327	36.238	156	6.09	155	40.847	76	21.04	295
Juli 9	5 12.025	55	28.79	157	6 30.392	4	60.00	314	6 36.394	88	7.64	163	6 40.923	28	23.99	283
19	12.080	12	30.36	141	30.396	51	63.14	296	36.482	18	9.27	166	40.951	20	26.82	265
29	12.092	31	31.77	124	30.345	104	66.10	271	36.500	52	10.93	162	40.931	67	29.47	242
Aug. 8	12.061	70	33.01	105	30.241	153	68.81	240	36.448	118	12.55	151	40.864	112	31.89	213
18	11.991	107	34.06	85	30.088	197	71.21	204	36.330	178	14.06	135	40.752	152	34.02	180
28	11.884	138	34.91	64	29.891	234	73.25	164	36.152	229	15.41	113	40.600	186	35.82	144
Sept. 7	11.746	161	35.55	44	29.657	262	74.89	121	35.923	269	16.54	85	40.414	211	37.26	106
17	11.585	176	35.99	22	29.395	281	76.10	74	35.654	296	17.39	53	40.203	228	38.32	64
27	11.409	182	36.21	0	29.114	289	76.84	27	35.358	306	17.92	19	39.975	236	38.96	22
Okt. 7	11.227	178	36.21	20	28.825	286	77.11	23	35.052	302	18.11	18	39.739	233	39.18	22
17	11.049	164	36.01	42	28.539	272	76.88	72	34.750	281	17.93	55	39.506	220	38.96	65
27	10.885	142	35.59	62	28.267	247	76.16	121	34.469	245	17.38	89	39.286	197	38.31	108
Nov. 6	10.743	112	34.97	82	28.020	213	74.95	167	34.224	196	16.49	121	39.089	167	37.23	150
16	10.631	76	34.15	102	27.807	171	73.28	211	34.028	137	15.28	147	38.922	130	35.73	188
26	10.555	37	33.13	119	27.636	122	71.17	250	33.891	70	13.81	169	38.792	86	33.85	221
Dez. 6	10.518	5	31.94	134	27.514	69	68.67	281	33.821	1	12.12	185	38.706	39	31.64	250
16	10.523	48	30.60	144	27.445	13	65.86	304	33.822	72	10.27	193	38.667	9	29.14	271
26	10.571	89	29.16	150	27.432	45	62.82	317	33.894	142	8.34	196	38.676	58	26.43	283
36	10.660		27.66		27.477		59.65		34.036		6.38		38.734		23.60	
Mittl. Ort	8.229		16.92		26.938		48.22		30.347		17.85		37.423		12.04	
sec δ, tg δ	1.003		+0.072		1.387		+0.961		1.662		−1.328		1.187		+0.640	
a, *a′*	+3.0		+4.6		+1.8		+4.6		+4.8		+4.6		+2.2		+4.9	
b, *b′*	0.00		+0.97		+0.01		+0.97		−0.02		+0.97		+0.01		+0.97	

Tag	716) ζ Aquilae				717) λ Aquilae				718) α Coron. austr.				720) π Sagittarii			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$19^h\ 2^m$		$+13°\ 46'$		$19^h\ 2^m$		$-4°\ 58'$		$19^h\ 5^m$		$-37°\ 59'$		$19^h\ 6^m$		$-21°\ 7'$	
Jan. 1	33.113	99	16.61	199	57.186	113	32.88	94	14.856	143	67.61	113	4.310	123	22.09	8
11	33.212	136	14.62	196	57.299	149	33.82	91	14.999	188	66.48	113	4.433	161	22.01	9
21	33.348	170	12.66	183	57.448	180	34.73	84	15.187	228	65.35	109	4.594	196	21.92	12
31	33.518	200	10.83	164	57.628	208	35.57	71	15.415	264	64.26	105	4.790	224	21.80	16
Febr. 10	33.718	225	9.19	137	57.836	232	36.28	56	15.679	293	63.21	100	5.014	249	21.64	22
20	33.943	247	7.82	104	58.068	250	36.84	34	15.972	317	62.21	94	5.263	270	21.42	31
März 2	34.190	264	6.78	65	58.318	267	37.18	11	16.289	336	61.27	88	5.533	286	21.11	40
12	34.454	277	6.13	23	58.585	278	37.29	14	16.625	351	60.39	81	5.819	298	20.71	49
22	34.731	286	5.90	19	58.863	286	37.15	40	16.976	362	59.58	72	6.117	307	20.22	59
Apr. 1	35.017	290	6.09	61	59.149	291	36.75	65	17.338	367	58.86	63	6.424	313	19.63	66
11	35.307	290	6.70	102	59.440	292	36.10	87	17.705	367	58.23	52	6.737	314	18.97	73
21	35.597	284	7.72	137	59.732	287	35.23	107	18.072	362	57.71	40	7.051	310	18.24	76
Mai 1	35.881	274	9.09	168	60.019	278	34.16	122	18.434	351	57.31	25	7.361	301	17.48	77
11	36.155	257	10.77	192	60.297	264	32.94	133	18.785	333	57.06	9	7.662	287	16.71	75
21	36.412	236	12.69	211	60.561	243	31.61	138	19.118	309	56.97	7	7.949	266	15.96	70
31	36.648	208	14.80	223	60.804	218	30.23	141	19.427	277	57.04	24	8.215	240	15.26	62
Juni 10	36.856	175	17.03	227	61.022	187	28.82	137	19.704	240	57.28	41	8.455	208	14.64	52
20	37.031	139	19.30	226	61.209	152	27.45	131	19.944	195	57.69	57	8.663	1 0	14.12	41
30	$_8$37.170	98	21.56	219	$_8$61.361	112	26.14	122	^{9}20.139	146	58.26	71	^{9}8.833	128	13.71	28
Juli 9	37.268	55	23.75	208	61.473	70	24.92	109	20.285	93	58.97	82	8.961	83	13.43	17
19	37.323	11	25.83	191	61.543	26	23.83	95	20.378	39	59.79	89	9.044	36	13.26	5
29	37.334	31	27.74	172	61.569	17	22.88	81	20.417	16	60.68	94	9.080	10	13.21	5
Aug. 8	37.303	73	29.46	149	61.552	59	22.07	66	20.401	69	61.62	93	9.070	55	13.26	12
18	37.230	111	30.95	123	61.493	96	21.41	50	20.332	117	62.55	87	9.015	97	13.38	18
28	37.119	142	32.18	97	61.397	128	20.91	35	20.215	159	63.42	78	8.918	132	13.56	21
Sept. 7	36.977	166	33.15	69	61.269	154	20.56	22	20.056	192	64.20	64	8.786	160	13.77	22
17	36.811	183	33.84	40	61.115	171	20.34	8	19.864	215	64.84	47	8.626	179	13.99	20
27	36.628	191	34.24	11	60.944	178	20.26	4	19.649	225	65.31	26	8.447	187	14.19	17
Okt. 7	36.437	188	34.35	19	60.766	175	20.30	17	19.424	223	65.57	5	8.260	185	14.36	12
17	36.249	176	34.16	49	60.591	163	20.47	29	19.201	208	65.62	18	8.075	173	14.48	8
27	36.073	156	33.67	78	60.428	142	20.76	41	18.993	183	65.44	40	7.902	150	14.56	3
Nov. 6	35.917	128	32.89	106	60.286	113	21.17	52	18.810	146	65.04	60	7.752	119	14.59	1
16	35.789	93	31.83	132	60.173	78	21.69	64	18.664	101	64.44	77	7.633	82	14.58	4
26	35.696	54	30.51	156	60.095	38	22.33	74	18.563	52	63.67	91	7.551	39	14.54	5
Dez. 6	35.642	13	28.95	177	60.057	3	23.07	84	18.511	2	62.76	101	7.512	6	14.49	6
16	35.629	30	27.18	191	60.060	46	23.91	91	18.513	56	61.75	107	7.518	51	14.43	6
26	35.659	72	25.27	199	60.106	86	24.82	95	18.569	108	60.68	111	7.569	94	14.37	6
36	35.731		23.28		60.192		25.77		18.677		59.57		7.663		14.31	
Mittl. Ort	33.597		11.47		57.524		37.29		15.323		71.09		4.640		25.96	
sec δ, tg δ	1.030		+0.245		1.004		−0.087		1.269		−0.781		1.072		−0.386	
a, *a′*	+2.8		+5.4		+3.2		+5.4		+4.1		+5.6		+3.6		+5.7	
b, *b′*	0.00		+0.96		0.00		+0.96		−0.01		+0.96		−0.01		+0.96	

Tag	723) δ Draconis AR.	Δ	Dekl.	Δ	724) ϑ Lyrae AR.	Δ	Dekl.	Δ	725) ω Aquilae AR.	Δ	Dekl.	Δ	726) ϰ Cygni AR.	Δ	Dekl.	Δ
1938	19h 12m		+67° 32′		19h 14m		+38° 1′		19h 14m		+11° 28′		19h 15m		+53° 14′	
	s		″		s		″		s		″		s		″	
Jan. 1	29.47	1	77.15	343	11.959	62	27.06	297	53.919	88	61.50	183	38.581	33	79.98	332
11	29.46	9	73.72	345	12.021	111	24.09	295	54.007	126	59.67	181	38.614	100	76.66	331
21	29.55	20	70.27	334	12.132	156	21.14	282	54.133	159	57.86	170	38.714	163	73.35	320
31	29.75	30	66.93	309	12.288	198	18.32	258	54.292	189	56.16	152	38.877	223	70.15	296
Febr. 10	30.05	39	63.84	273	12.486	236	15.74	224	54.481	216	54.64	127	39.100	276	67.19	259
20	30.44	47	61.11	227	12.722	267	13.50	181	54.697	238	53.37	96	39.376	323	64.60	214
März 2	30.91	53	58.84	171	12.989	294	11.69	130	54.935	257	52.41	60	39.699	361	62.46	159
12	31.44	58	57.13	109	13.283	314	10.39	75	55.192	271	51.81	21	40.060	390	60.87	98
22	32.02	60	56.04	44	13.597	328	9.64	16	55.463	282	51.60	20	40.450	408	59.89	34
Apr. 1	32.62	62	55.60	22	13.925	335	9.48	43	55.745	289	51.80	61	40.858	417	59.55	30
11	33.24	61	55.82	87	14.260	335	9.91	100	56.034	290	52.41	98	41.275	415	59.85	93
21	33.85	58	56.69	148	14.595	327	10.91	153	56.324	287	53.39	133	41.690	403	60.78	152
Mai 1	34.43	54	58.17	204	14.922	313	12.44	199	56.611	279	54.72	162	42.093	381	62.30	205
11	34.97	48	60.21	252	15.235	291	14.43	240	56.890	264	56.34	186	42.474	348	64.35	251
21	35.45	41	62.73	291	15.526	262	16.83	272	57.154	244	58.20	204	42.822	307	66.86	289
31	35.86	33	65.64	322	15.788	227	19.55	295	57.398	218	60.24	214	43.129	258	69.75	318
Juni 10	36.19	24	68.86	344	16.015	186	22.50	311	57.616	187	62.38	220	43.387	203	72.93	337
20	36.43	14	72.30	356	16.201	140	25.61	317	57.803	151	64.58	218	43.590	142	76.30	348
30	36.57	5	75.86	358	16.341	92	28.78	316	57.954	111	66.76	212	43.732	78	79.78	349
Juli 10	36.62	6	79.44	352	16.433	40	31.94	307	58.065	69	68.88	200	43.810	13	83.27	342
	10				11				11				11			
19	36.56	15	82.96	339	16.473	12	35.01	291	58.134	25	70.88	185	43.823	53	86.69	328
29	36.41	25	86.35	317	16.461	63	37.92	269	58.159	19	72.73	166	43.770	117	89.97	305
Aug. 8	36.16	33	89.52	289	16.398	110	40.61	241	58.140	60	74.39	144	43.653	176	93.02	277
18	35.83	41	92.41	254	16.288	154	43.02	209	58.080	99	75.83	121	43.477	230	95.79	243
28	35.42	48	94.95	215	16.134	192	45.11	172	57.981	132	77.04	95	43.247	277	98.22	203
Sept. 7	34.94	54	97.10	170	15.942	221	46.83	132	57.849	158	77.99	69	42.970	314	100.25	160
17	34.40	57	98.80	122	15.721	243	48.15	89	57.691	176	78.68	42	42.656	340	101.85	112
27	33.83	59	100.02	70	15.478	253	49.04	45	57.515	185	79.10	14	42.316	355	102.97	63
Okt. 7	33.24	60	100.72	16	15.225	254	49.49	2	57.330	185	79.24	13	41.961	358	103.60	10
17	32.64	59	100.88	38	14.971	245	49.47	49	57.145	175	79.11	41	41.603	349	103.70	43
27	32.05	56	100.50	94	14.726	225	48.98	95	56.970	157	78.70	68	41.254	328	103.27	95
Nov. 6	31.49	51	99.56	148	14.501	197	48.03	140	56.813	130	78.02	95	40.926	294	102.32	147
16	30.98	45	98.08	199	14.304	160	46.63	183	56.683	98	77.07	119	40.632	251	100.85	196
26	30.53	38	96.09	245	14.144	118	44.80	221	56.585	60	75.88	142	40.381	199	98.89	241
Dez. 6	30.15	28	93.64	286	14.026	71	42.59	253	56.525	20	74.46	161	40.182	140	96.48	278
16	29.87	19	90.78	317	13.955	21	40.06	278	56.505	21	72.85	174	40.042	77	93.70	307
26	29.68	8	87.61	338	13.934	29	37.28	294	56.526	61	71.11	184	39.965	10	90.63	327
36	29.60		84.23		13.963		34.34		56.587		69.27		39.955		87.36	
Mittl. Ort	32.77		68.65		12.919		19.96		54.362		55.99		40.250		71.88	
sec δ, tg δ	2.619		+2.421		1.269		+0.782		1.020		+0.203		1.672		+1.339	
a, *a′*	0.0		+6.2		+2.1		+6.4		+2.8		+6.4		+1.4		+6.5	
b, *b′*	+0.05		+0.95		+0.02		+0.95		0.00		+0.95		+0.03		+0.95	

Tag	729) τ Draconis				728) α Sagittarii				730) δ Aquilae				733) ι Cygni			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$19^h\ 16^m$		$+73°\ 14'$		$19^h\ 19^m$		$-40°\ 43'$		$19^h\ 22^m$		$+2°\ 59'$		$19^h\ 28^m$		$+51°\ 35'$	
	s		″		s		″		s		″		s		″	
Jan. 1	40.72	8	36.57	341	35.071	127	60.93	133	21.977	88	28.13	134	7.091	19	57.79	324
11	40.64	8	33.16	344	35.198	175	59.60	135	22.065	125	26.79	132	7.110	82	54.55	327
21	40.72	22	29.72	334	35.373	218	58.25	133	22.190	157	25.47	123	7.192	143	51.28	318
31	40.94	35	26.38	312	35.591	256	56.92	129	22.347	186	24.24	108	7.335	200	48.10	297
Febr. 10	41.29	47	23.26	278	35.847	288	55.63	124	22.533	212	23.16	88	7.535	254	45.13	263
20	41.76	59	20.48	233	36.135	316	54.39	118	22.745	234	22.28	62	7.789	300	42.50	219
März 2	42.35	67	18.15	178	36.451	338	53.21	110	22.979	253	21.66	32	8.089	339	40.31	167
12	43.02	74	16.37	118	36.789	356	52.11	100	23.232	268	21.34	1	8.428	370	38.64	108
22	43.76	78	15.19	53	37.145	370	51.11	91	23.500	279	21.33	33	8.798	392	37.56	46
Apr. 1	44.54	79	14.66	12	37.515	378	50.20	78	23.779	287	21.66	66	9.190	404	37.10	18
11	45.33	78	14.78	77	37.893	381	49.42	65	24.066	290	22.32	95	9.594	405	37.28	81
21	46.11	75	15.55	139	38.274	378	48.77	49	24.356	289	23.27	123	9.999	397	38.09	140
Mai 1	46.86	69	16.94	195	38.652	369	48.28	31	24.645	282	24.50	146	10.396	379	39.49	194
11	47.55	62	18.89	244	39.021	353	47.97	13	24.927	270	25.96	162	10.775	352	41.43	241
21	48.17	52	21.33	284	39.374	330	47.84	7	25.197	251	27.58	175	11.127	314	43.84	281
31	48.69	41	24.17	316	39.704	299	47.91	27	25.448	227	29.33	182	11.441	269	46.65	311
Juni 10	49.10	29	27.33	339	40.003	261	48.18	46	25.675	198	31.15	183	11.710	218	49.76	332
20	49.39	17	30.72	353	40.264	217	48.64	65	25.873	163	32.98	178	11.928	161	53.08	345
30	49.56	3	34.25	357	40.481	166	49.29	81	26.036	124	34.76	171	12.089	99	56.53	349
Juli 10	49.59	10	37.82	353	40.647	111	50.10	95	26.160	83	36.47	159	12.188	36	60.02	343
	11				12				13				14			
19	49.49	22	41.35	341	40.758	55	51.05	104	26.243	39	38.06	144	12.224	28	63.45	331
29	49.27	34	44.76	320	40.813	2	52.09	110	26.282	4	39.50	126	12.196	91	66.76	311
Aug. 8	48.93	46	47.96	294	40.811	58	53.19	110	26.278	47	40.76	108	12.105	150	69.87	284
18	48.47	56	50.90	261	40.753	111	54.29	105	26.231	86	41.84	88	11.955	204	72.71	252
28	47.91	65	53.51	223	40.642	156	55.34	95	26.145	120	42.72	67	11.751	250	75.23	214
Sept. 7	47.26	72	55.74	179	40.486	192	56.29	81	26.025	146	43.39	47	11.501	289	77.37	172
17	46.54	78	57.53	131	40.294	218	57.10	62	25.879	166	43.86	26	11.212	318	79.09	125
27	45.76	80	58.84	81	40.076	233	57.72	40	25.713	176	44.12	6	10.894	334	80.34	77
Okt. 7	44.96	82	59.65	28	39.843	234	58.12	15	25.537	177	44.18	14	10.560	340	81.11	26
17	44.14	80	59.93	27	39.609	223	58.27	10	25.360	168	44.04	33	10.220	334	81.37	27
27	43.34	77	59.66	83	39.386	199	58.17	36	25.192	151	43.71	52	9.886	316	81.10	80
Nov. 6	42.57	72	58.83	137	39.187	164	57.81	59	25.041	125	43.19	72	9.570	286	80.30	131
16	41.85	64	57.46	189	39.023	120	57.22	81	24.916	93	42.47	89	9.284	247	78.99	181
26	41.21	54	55.57	237	38.903	71	56.41	99	24.823	56	41.58	105	9.037	199	77.18	227
Dez. 6	40.67	43	53.20	278	38.832	17	55.42	113	24.767	18	40.53	119	8.838	145	74.91	265
16	40.24	30	50.42	310	38.815	37	54.29	123	24.749	22	39.34	129	8.693	86	72.26	296
26	39.94	16	47.32	334	38.852	92	53.06	130	24.771	62	38.05	135	8.607	23	69.30	318
36	39.78		43.98		38.944		51.76		24.833		36.70		8.584		66.12	
Mittl. Ort	45.40		27.38		35.586		63.84		22.339		22.94		8.601		48.69	
sec δ, tg δ	3.468		+3.321		1.320		−0.861		1.001		+0.052		1.610		+1.262	
a, *a′*	−1.1		+6.6		+4.2		+6.8		+3.0		+7.1		+1.5		+7.5	
b, *b′*	+0.07		+0.94		−0.02		+0.94		0.00		+0.94		+0.03		+0.93	

Tag	732) β Cygni AR.		Dekl.		736) *h* Sagittarii AR.		Dekl.		738) ϑ Cygni AR.		Dekl.		742) δ Cygni AR.		Dekl.	
1938	$19^h\ 28^m$		$+27°\ 49'$		$19^h\ 32^m$		$-25°\ 1'$		$19^h\ 34^m$		$+50°\ 4'$		$19^h\ 43^m$		$+44°\ 58'$	
Jan. 1	12.561	60	48.93	255	55.822	98	16.30	39	45.313	13	45.20	319	1.139	15	52.12	305
11	12.621	101	46.38	255	55.920	137	15.91	43	45.326	73	42.01	322	1.154	68	49.07	310
21	12.722	141	43.83	245	56.057	173	15.48	47	45.399	133	38.79	315	1.222	121	45.97	303
31	12.863	177	41.38	225	56.230	205	15.01	52	45.532	189	35.64	295	1.343	172	42.94	284
Febr. 10	13.040	210	39.13	195	56.435	232	14.49	57	45.721	240	32.69	263	1.515	217	40.10	255
20	13.250	239	37.18	157	56.667	257	13.92	64	45.961	286	30.06	220	1.732	259	37.55	214
März 2	13.489	263	35.61	112	56.924	278	13.28	70	46.247	324	27.86	169	1.991	295	35.41	166
12	13.752	283	34.49	63	57.202	294	12.58	77	46.571	356	26.17	112	2.286	324	33.75	110
22	14.035	297	33.86	10	57.496	309	11.81	83	46.927	379	25.05	50	2.610	347	32.65	50
Apr. 1	14.332	307	33.76	42	57.805	318	10.98	87	47.306	392	24.55	13	2.957	361	32.15	11
11	14.639	310	34.18	93	58.123	323	10.11	89	47.698	396	24.68	76	3.318	368	32.26	71
21	14.949	308	35.11	140	58.446	324	9.22	89	48.094	390	25.44	134	3.686	365	32.97	129
Mai 1	15.257	298	36.51	183	58.770	320	8.33	85	48.484	374	26.78	189	4.051	353	34.26	181
11	15.555	283	38.34	219	59.090	308	7.48	79	48.858	349	28.67	236	4.404	334	36.07	228
21	15.838	260	40.53	247	59.398	291	6.69	69	49.207	315	31.03	276	4.738	305	38.35	266
31	16.098	231	43.00	268	59.689	267	6.00	58	49.522	272	33.79	307	5.043	268	41.01	297
Juni 10	16.329	197	45.68	281	59.956	236	5.42	45	49.794	224	36.86	329	5.311	226	43.98	320
20	16.526	158	48.49	286	60.192	200	4.97	29	50.018	169	40.15	342	5.537	177	47.18	332
30	16.684	114	51.35	285	60.392	157	4.68	15	50.187	110	43.57	347	5.714	124	50.50	337
Juli 10	16.798	68	54.20	277	60.549	112	4.53	0	50.297	49	47.04	344	5.838	68	53.87	334
	14				16				16				18			
19	16.866	20	56.97	262	60.661	64	4.53	14	50.346	14	50.48	331	5.906	10	57.21	323
29	16.886	27	59.59	241	60.725	15	4.67	26	50.332	75	53.79	312	5.916	47	60.44	304
Aug. 8	16.859	72	62.00	217	60.740	33	4.93	34	50.257	133	56.91	287	5.869	101	63.48	280
18	16.787	114	64.17	188	60.707	78	5.27	41	50.124	187	59.78	255	5.768	151	66.28	250
28	16.673	150	66.05	155	60.629	118	5.68	43	49.937	233	62.33	218	5.617	196	68.78	215
Sept. 7	16.523	180	67.60	121	60.511	150	6.11	43	49.704	272	64.51	177	5.421	233	70.93	175
17	16.343	201	68.81	83	60.361	173	6.54	40	49.432	300	66.28	132	5.188	261	72.68	131
27	16.142	213	69.64	44	60.188	188	6.94	33	49.132	319	67.60	83	4.927	278	73.99	85
Okt. 7	15.929	215	70.08	4	60.000	191	7.27	25	48.813	325	68.43	33	4.649	286	74.84	37
17	15.714	209	70.12	36	59.809	183	7.52	15	48.488	321	68.76	19	4.363	283	75.21	12
27	15.505	192	69.76	76	59.626	165	7.67	6	48.167	304	68.57	71	4.080	268	75.09	64
Nov. 6	15.313	167	69.00	116	59.461	137	7.73	4	47.863	277	67.86	123	3.812	244	74.45	114
16	15.146	136	67.84	153	59.324	103	7.69	13	47.586	240	66.63	173	3.568	212	73.31	161
26	15.010	98	66.31	186	59.221	63	7.56	20	47.346	195	64.90	218	3.356	171	71.70	205
Dez. 6	14.912	57	64.45	216	59.158	20	7.36	26	47.151	143	62.72	257	3.185	125	69.65	244
16	14.855	14	62.29	238	59.138	25	7.10	31	47.008	87	60.15	289	3.060	75	67.21	275
26	14.841	30	59.91	253	59.163	68	6.79	35	46.921	27	57.26	312	2.985	21	64.46	298
36	14.871		57.38		59.231		6.44		46.894		54.14		2.964		61.48	
Mittl. Ort	13.224		41.61		56.161		19.59		46.706		35.64		2.253		42.31	
sec δ, tg δ	1.131		+0.528		1.104		−0.467		1.558		+1.195		1.414		+0.999	
a, *a'*	+2.4		+7.5		+3.6		+7.9		+1.6		+8.1		+1.9		+8.7	
b, *b'*	+0.01		+0.93		−0.01		+0.92		+0.03		+0.92		+0.03		+0.90	

Scheinbare Sternörter 1938

Tag	741) γ Aquilae				743) δ Sagittae				745) α Aquilae [1]				747) ε Draconis			
	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.	AR.	Diff.	Dekl.	Diff.
1938	$19^h\ 43^m$		$+10°\ 27'$		$19^h\ 44^m$		$+18°\ 22'$		$19^h\ 47^m$		$+8°\ 42'$		$19^h\ 48^m$		$+70°\ 6'$	
	s		″		s		″		s		″		s		″	
Jan. 1	18.328	62	45.59	169	36.909	53	55.68	208	45.117	62	17.94	157	20.07	13	48.07	328
11	18.390	98	43.90	168	36.962	91	53.60	209	45.179	99	16.37	156	19.94	0	44.79	340
21	18.488	133	42.22	160	37.053	128	51.51	200	45.278	132	14.81	147	19.94	11	41.39	339
31	18.621	163	40.62	144	37.181	160	49.51	183	45.410	163	13.34	132	20.05	24	38.00	324
Febr. 10	18.784	192	39.18	122	37.341	191	47.68	159	45.573	192	12.02	111	20.29	34	34.76	297
20	18.976	218	37.96	93	37.532	219	46.09	126	45.765	217	10.91	82	20.63	44	31.79	259
März 2	19.194	239	37.03	59	37.751	242	44.83	87	45.982	238	10.09	50	21.07	53	29.20	209
12	19.433	258	36.44	21	37.993	262	43.96	45	46.220	258	9.59	14	21.60	60	27.11	153
22	19.691	274	36.23	17	38.255	279	43.51	0	46.478	273	9.45	24	22.20	64	25.58	91
Apr. 1	19.965	285	36.40	57	38.534	290	43.51	45	46.751	285	9.69	61	22.84	68	24.67	26
11	20.250	291	36.97	94	38.824	297	43.96	90	47.036	291	10.30	97	23.52	69	24.41	39
21	20.541	293	37.91	128	39.121	298	44.86	131	47.327	294	11.27	130	24.21	67	24.80	103
Mai 1	20.834	288	39.19	158	39.419	294	46.17	167	47.621	289	12.57	157	24.88	64	25.83	162
11	21.122	279	40.77	182	39.713	282	47.84	197	47.910	280	14.14	181	25.52	59	27.45	215
21	21.401	262	42.59	200	39.995	264	49.81	222	48.190	264	15.95	198	26.11	52	29.60	262
31	21.663	239	44.59	213	40.259	241	52.03	239	48.454	242	17.93	208	26.63	44	32.22	299
Juni 10	21.902	211	46.72	219	40.500	211	54.42	249	48.696	214	20.01	214	27.07	35	35.21	328
20	22.113	177	48.91	219	40.711	175	56.91	252	48.910	180	22.15	212	27.42	25	38.49	349
30	22.290	138	51.10	213	40.886	135	59.43	250	49.090	142	24.27	207	27.67	14	41.98	360
Juli 10	22.428	96	53.23	203	41.021	92	61.93	241	49.232	100	26.34	196	27.81	2	45.58	362
	18				19				19				19			
19	22.524	52	55.26	188	41.113	47	64.34	227	49.332	57	28.30	180	27.83	8	49.20	357
29	22.576	8	57.14	170	41.160	2	66.61	209	49.389	12	30.10	163	27.75	20	52.77	342
Aug. 8	22.584	35	58.84	149	41.162	43	68.70	186	49.401	31	31.73	142	27.55	29	56.19	321
18	22.549	76	60.33	127	41.119	84	70.56	161	49.370	72	33.15	119	27.26	39	59.40	293
28	22.473	112	61.60	102	41.035	120	72.17	133	49.298	108	34.34	96	26.87	48	62.33	259
Sept. 7	22.361	141	62.62	76	40.915	151	73.50	103	49.190	137	35.30	72	26.39	54	64.92	220
17	22.220	163	63.38	50	40.764	173	74.53	72	49.053	159	36.02	46	25.85	60	67.12	174
27	22.057	177	63.88	24	40.591	186	75.25	40	48.894	173	36.48	21	25.25	64	68.86	126
Okt. 7	21.880	181	64.12	2	40.405	192	75.65	6	48.721	178	36.69	4	24.61	66	70.12	73
17	21.699	176	64.10	29	40.213	187	75.71	26	48.543	173	36.65	28	23.95	67	70.85	19
27	21.523	161	63.81	55	40.026	173	75.45	59	48.370	159	36.37	52	23.28	65	71.04	38
Nov. 6	21.362	140	63.26	81	39.853	152	74.86	92	48.211	137	35.85	76	22.63	62	70.66	94
16	21.222	112	62.45	104	39.701	123	73.94	122	48.074	110	35.09	98	22.01	56	69.72	149
26	21.110	78	61.41	126	39.578	90	72.72	150	47.964	76	34.11	118	21.45	49	68.23	201
Dez. 6	21.032	41	60.15	144	39.488	53	71.22	175	47.888	40	32.93	136	20.96	41	66.22	248
16	20.991	3	58.71	160	39.435	14	69.47	193	47.848	2	31.57	149	20.55	31	63.74	287
26	20.988	35	57.11	168	39.421	26	67.54	206	47.846	36	30.08	157	20.24	20	60.87	317
36	21.023		55.43		39.447		65.48		47.882		28.51		20.04		57.70	
Mittl. Ort	18.713		39.17		37.377		48.39		45.481		11.68		23.58		35.89	
sec δ, tg δ	1.017		+0.185		1.054		+0.332		1.012		+0.153		2.939		+2.764	
a, *a′*	+2.9		+8.7		+2.7		+8.8		+2.9		+9.1		−0.2		+9.1	
b, *b′*	+0.01		+0.90		+0.01		+0.90		0.00		+0.89		+0.08		+0.89	

[1]) Die jährliche Parallaxe (0.″204) ist bereits berücksichtigt.

Tag	749) β Aquilae AR.		Dekl.		748) ε Pavonis AR.		Dekl.		750) ψ Cygni AR.		Dekl.		751) ϑ¹ Sagittarii AR.		Dekl.	
1938	$19^h 52^m$		+6° 15′		$19^h 53^m$		−73° 4′		$19^h 54^m$		+52° 16′		$19^h 55^m$		−35° 26′	
	s		″		s		″		s		″		s		″	
Jan. 1	15.719	57	8.35	146	24.52	9	36.62	304	0.220	22	36.28	315	41.786	76	42.63	107
11	15.776	93	6.89	144	24.61	22	33.58	309	0.198	42	33.13	323	41.862	121	41.56	115
21	15.869	126	5.45	136	24.83	35	30.49	306	0.240	104	29.90	320	41.983	162	40.41	119
31	15.995	157	4.09	122	25.18	47	27.43	297	0.344	164	26.70	304	42.145	199	39.22	123
Febr. 10	16.152	185	2.87	101	25.65	57	24.46	279	0.508	221	23.66	277	42.344	232	37.99	125
20	16.337	211	1.86	75	26.22	66	21.67	256	0.729	272	20.89	238	42.576	261	36.74	125
März 2	16.548	233	1.11	44	26.88	74	19.11	229	1.001	318	18.51	189	42.837	288	35.49	126
12	16.781	253	0.67	11	27.62	80	16.82	197	1.319	355	16.62	134	43.125	311	34.23	123
22	17.034	269	0.56	25	28.42	85	14.85	161	1.674	384	15.28	74	43.436	329	33.00	120
Apr. 1	17.303	282	0.81	60	29.27	88	13.24	123	2.058	404	14.54	10	43.765	343	31.80	114
11	17.585	290	1.41	94	30.15	91	12.01	82	2.462	413	14.44	53	44.108	354	30.66	105
21	17.875	293	2.35	124	31.06	90	11.19	40	2.875	411	14.97	113	44.462	358	29.61	95
Mai 1	18.168	290	3.59	151	31.96	88	10.79	3	3.286	399	16.10	169	44.820	356	28.66	81
11	18.458	282	5.10	172	32.84	85	10.82	45	3.685	378	17.79	220	45.176	348	27.85	65
21	18.740	268	6.82	187	33.69	80	11.27	87	4.063	345	19.99	263	45.524	332	27.20	46
31	19.008	246	8.69	198	34.49	72	12.14	126	4.408	303	22.62	298	45.856	308	26.74	26
Juni 10	19.254	219	10.67	201	35.21	64	13.40	163	4.711	255	25.60	324	46.164	278	26.48	5
20	19.473	186	12.68	199	35.85	53	15.03	194	4.966	200	28.84	341	46.442	240	26.43	16
30	19.659	149	14.67	193	36.38	41	16.97	220	5.166	139	32.25	350	46.682	195	26.59	36
Juli 10	19.808	108	16.60	183	36.79	28	19.17	240	5.305	75	35.75	351	46.877	146	26.95	55
20	20 19.916	64	18.43	167	21 37.07	14	21.57	252	21 5.380	10	39.26	342	21 47.023	93	27.50	71
29	19.980	19	20.10	150	37.21	0	24.09	255	5.390	55	42.68	326	47.116	39	28.21	83
Aug. 8	19.999	24	21.60	130	37.21	14	26.64	250	5.335	117	45.94	304	47.155	16	29.04	92
18	19.975	65	22.90	108	37.07	27	29.14	236	5.218	174	48.98	275	47.139	67	29.96	95
28	19.910	102	23.98	86	36.80	40	31.50	213	5.044	226	51.73	241	47.072	114	30.91	94
Sept. 7	19.808	132	24.84	64	36.40	50	33.63	180	4.818	269	54.14	201	46.958	153	31.85	88
17	19.676	155	25.48	40	35.90	59	35.43	141	4.549	303	56.15	157	46.805	184	32.73	77
27	19.521	170	25.88	17	35.31	64	36.84	95	4.246	326	57.72	110	46.621	204	33.50	62
Okt. 7	19.351	176	26.05	6	34.67	68	37.79	44	3.920	337	58.82	60	46.417	212	34.12	44
17	19.175	171	25.99	28	33.99	67	38.23	9	3.583	337	59.42	7	46.205	209	34.56	23
27	19.004	159	25.71	50	33.32	65	38.14	64	3.246	326	59.49	46	45.996	195	34.79	2
Nov. 6	18.845	139	25.21	71	32.67	59	37.50	116	2.920	303	59.03	100	45.801	169	34.81	20
16	18.706	111	24.50	92	32.08	50	36.34	165	2.617	270	58.03	151	45.632	135	34.61	40
26	18.595	79	23.58	110	31.58	40	34.69	209	2.347	227	56.52	199	45.497	94	34.21	59
Dez. 6	18.516	44	22.48	125	31.18	27	32.60	245	2.120	178	54.53	242	45.403	50	33.62	76
16	18.472	7	21.23	138	30.91	14	30.15	274	1.942	122	52.11	278	45.353	3	32.86	89
26	18.465	31	19.85	145	30.77	1	27.41	294	1.820	62	49.33	305	45.350	45	31.97	100
36	18.496		18.40		30.76		24.47		1.758		46.28		45.395		30.97	
Mittl. Ort	16.053		2.13		27.18		36.92		1.637		24.94		42.205		44.56	
sec δ, tg δ	1.006		+0.110		3.435		−3.287		1.634		+1.293		1.228		−0.712	
a, *a*′	+2.9		+9.4		+6.9		+9.5		+1.6		+9.6		+3.9		+9.7	
b, *b*′	0.00		+0.88		−0.10		+0.88		+0.04		+0.88		−0.02		+0.88	

Scheinbare Sternörter 1938

Tag	752) γ Sagittae				754) δ Pavonis				756) ϑ Aquilae				759) ϰ Cephei			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$19^h\ 55^m$		$+19°\ 19'$		$20^h\ 2^m$		$-66°\ 20'$		$20^h\ 8^m$		$-1°\ 0'$		$20^h\ 10^m$		$+77°\ 31'$	
	s		"		s		"		s		"		s		"	
Jan. 1	59.504	41	29.04	209	38.04	7	33.89	272	6.120	47	18.57	99	55.01	36	46.85	309
11	59.545	79	26.95	210	38.11	17	31.17	281	6.167	82	19.56	97	54.65	17	43.76	329
21	59.624	116	24.85	203	38.28	25	28.36	281	6.249	115	20.53	89	54.48	3	40.47	336
31	59.740	149	22.82	187	38.53	34	25.55	275	6.364	146	21.42	76	54.51	22	37.11	329
Febr. 10	59.889	181	20.95	163	38.87	42	22.80	263	6.510	174	22.18	59	54.73	40	33.82	310
20	60.070	210	19.32	132	39.29	48	20.17	246	6.684	200	22.77	37	55.13	58	30.72	278
März 2	60.280	235	18.00	94	39.77	54	17.71	224	6.884	224	23.14	11	55.71	73	27.94	235
12	60.515	257	17.06	51	40.31	58	15.47	197	7.108	246	23.25	16	56.44	85	25.59	184
22	60.772	275	16.55	6	40.89	62	13.50	167	7.354	263	23.09	46	57.29	95	23.75	126
Apr. 1	61.047	289	16.49	40	41.51	66	11.83	134	7.617	278	22.63	74	58.24	101	22.49	63
11	61.336	298	16.89	85	42.17	67	10.49	99	7.895	289	21.89	101	59.25	104	21.86	1
21	61.634	301	17.74	127	42.84	67	9.50	60	8.184	295	20.88	124	60.29	104	21.87	65
Mai 1	61.935	298	19.01	165	43.51	67	8.90	22	8.479	295	19.64	145	61.33	99	22.52	125
11	62.233	288	20.66	196	44.18	64	8.68	18	8.774	290	18.19	160	62.32	93	23.77	181
21	62.521	272	22.62	222	44.82	62	8.86	58	9.064	278	16.59	170	63.25	83	25.58	231
31	62.793	250	24.84	240	45.44	57	9.44	96	9.342	259	14.89	175	64.08	71	27.89	274
Juni 10	63.043	220	27.24	252	46.01	50	10.40	131	9.601	234	13.14	175	64.79	57	30.63	307
20	63.263	185	29.76	257	46.51	43	11.71	163	9.835	203	11.39	170	65.36	42	33.70	334
30	63.448	146	32.33	255	46.94	34	13.34	191	10.038	167	9.69	161	65.78	25	37.04	352
Juli 10	63.594	103	34.88	248	47.28	25	15.25	212	10.205	127	8.08	148	66.03	9	40.56	360
20	[21] 63.697	57	37.36	235	[23] 47.53	15	17.37	228	[24] 10.332	83	6.60	133	[25] 66.12	9	44.16	361
29	63.754	12	39.71	217	47.68	5	19.65	235	10.415	39	5.27	115	66.03	26	47.77	354
Aug. 8	63.766	33	41.88	195	47.73	6	22.00	234	10.454	6	4.12	97	65.77	42	51.31	338
18	63.733	75	43.83	170	47.67	16	24.34	225	10.448	48	3.15	78	65.35	56	54.69	316
28	63.658	113	45.53	142	47.51	26	26.59	207	10.400	86	2.37	58	64.79	70	57.85	287
Sept. 7	63.545	145	46.95	112	47.25	33	28.66	180	10.314	118	1.79	40	64.09	83	60.72	252
17	63.400	168	48.07	81	46.92	40	30.46	147	10.196	144	1.39	22	63.26	92	63.24	211
27	63.232	184	48.88	48	46.52	44	31.93	106	10.052	161	1.17	4	62.34	99	65.35	166
Okt. 7	63.048	190	49.36	15	46.08	47	32.99	61	9.891	168	1.13	12	61.35	105	67.01	116
17	62.858	188	49.51	19	45.61	47	33.60	12	9.723	167	1.25	27	60.30	107	68.17	63
27	62.670	176	49.32	53	45.14	45	33.72	38	9.556	157	1.52	41	59.23	107	68.80	7
Nov. 6	62.494	157	48.79	86	44.69	41	33.34	87	9.399	139	1.93	55	58.16	104	68.87	50
16	62.337	130	47.93	117	44.28	35	32.47	133	9.260	114	2.48	68	57.12	98	68.37	107
26	62.207	99	46.76	146	43.93	28	31.14	175	9.146	83	3.16	80	56.14	88	67.30	162
Dez. 6	62.108	63	45.30	172	43.65	19	29.39	211	9.063	50	3.96	90	55.26	77	65.68	213
16	62.045	24	43.58	191	43.46	9	27.28	239	9.013	14	4.86	96	54.49	63	63.55	258
26	62.021	14	41.67	206	43.37	1	24.89	260	8.999	22	5.82	101	53.86	47	60.97	294
36	62.035		39.61		43.38		22.29		9.021		6.83		53.39		58.03	
Mittl. Ort	59.954		21.15		39.72		33.73		6.383		24.18		60.71		32.09	
sec δ, tg δ	1.060		+0.351		2.492		−2.283		1.000		−0.018		4.630		+4.520	
a, *a′*	+2.7		+9.7		+5.7		+10.2		+3.1		+10.6		−2.0		+10.8	
b, *b′*	+0.01		+0.87		−0.08		+ 0.86		0.00		+ 0.85		+0.16		+ 0.84	

Tag	757) o¹ Cygni sq.				760) 24 Vulpeculae				761) α² Capricorni				765) γ Cygni			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$20^h\ 11^m$		+46° 32′		$20^h\ 14^m$		+24° 28′		$20^h\ 14^m$		−12° 43′		$20^h\ 19^m$		+40° 3′	
	s		"		s		"		s		"		s		"	
Jan. 1	39.718	26	80.76	295	7.426	17	53.62	224	36.733	48	73.85	29	59.383	18	38.16	274
11	39.692	28	77.81	305	7.443	56	51.38	229	36.781	83	74.14	23	59.365	30	35.42	285
21	39.720	81	74.76	305	7.499	94	49.09	224	36.864	116	74.37	15	59.395	76	32.57	285
31	39.801	135	71.71	293	7.593	130	46.85	211	36.980	148	74.52	5	59.471	122	29.72	273
Febr. 10	39.936	185	68.78	269	7.723	164	44.74	188	37.128	177	74.57	9	59.593	167	26.99	250
20	40.121	231	66.09	233	7.887	197	42.86	157	37.305	204	74.48	25	59.760	208	24.49	217
März 2	40.352	274	63.76	189	8.084	226	41.29	118	37.509	227	74.23	43	59.968	246	22.32	175
12	40.626	310	61.87	136	8.310	252	40.11	74	37.736	250	73.80	61	60.214	280	20.57	126
22	40.936	340	60.51	79	8.562	273	39.37	26	37.986	269	73.19	80	60.494	307	19.31	71
Apr. 1	41.276	361	59.72	19	8.835	291	39.11	22	38.255	284	72.39	97	60.801	329	18.60	14
11	41.637	375	59.53	42	9.126	304	39.33	71	38.539	297	71.42	112	61.130	344	18.46	44
21	42.012	379	59.95	101	9.430	309	40.04	117	38.836	304	70.30	124	61.474	350	18.90	100
Mai 1	42.391	374	60.96	156	9.739	309	41.21	160	39.140	305	69.06	133	61.824	349	19.90	153
11	42.765	360	62.52	206	10.048	301	42.81	196	39.445	302	67.73	138	62.173	338	21.43	200
21	43.125	335	64.58	248	10.349	287	44.77	226	39.747	291	66.35	137	62.511	319	23.43	240
31	43.460	302	67.06	284	10.636	265	47.03	250	40.038	273	64.98	133	62.830	292	25.83	273
Juni 10	43.762	262	69.90	311	10.901	236	49.53	266	40.311	249	63.65	126	63.122	258	28.56	299
20	44.024	215	73.01	330	11.137	202	52.19	275	40.560	219	62.39	114	63.380	217	31.55	316
30	44.239	162	76.31	340	11.339	162	54.94	277	40.779	182	61.25	99	63.597	170	34.71	325
Juli 10	44.401	106	79.71	341	11.501	118	57.71	273	40.961	141	60.26	84	63.767	119	37.96	326
20	44.507	47	83.12	336	11.619	72	60.44	262	41.102	96	59.42	67	63.886	65	41.22	320
29	[25] 44.554	12	86.48	322	[26] 11.691	24	63.06	246	[26] 41.198	51	58.75	49	[27] 63.951	12	44.42	307
Aug. 8	44.542	69	89.70	301	11.715	21	65.52	225	41.249	5	58.26	32	63.963	41	47.49	287
18	44.473	123	92.71	275	11.694	66	67.77	200	41.254	40	57.94	18	63.922	92	50.36	261
28	44.350	172	95.46	243	11.628	106	69.77	171	41.214	80	57.76	3	63.830	138	52.97	230
Sept. 7	44.178	214	97.89	207	11.522	140	71.48	140	41.134	114	57.73	9	63.692	176	55.27	196
17	43.964	247	99.96	165	11.382	167	72.88	107	41.020	141	57.82	18	63.516	208	57.23	157
27	43.717	271	101.61	120	11.215	186	73.95	72	40.879	160	58.00	24	63.308	231	58.80	115
Okt. 7	43.446	284	102.81	72	11.029	195	74.67	34	40.719	170	58.24	30	63.077	245	59.95	69
17	43.162	288	103.53	23	10.834	196	75.01	3	40.549	169	58.54	34	62.832	248	60.64	23
27	42.874	280	103.76	29	10.638	188	74.98	40	40.380	159	58.88	35	62.584	242	60.87	25
Nov. 6	42.594	262	103.47	80	10.450	172	74.58	77	40.221	141	59.23	38	62.342	226	60.62	73
16	42.332	235	102.67	130	10.278	148	73.81	113	40.080	117	59.61	37	62.116	203	59.89	119
26	42.097	201	101.37	177	10.130	119	72.68	147	39.963	86	59.98	38	61.913	172	58.70	164
Dez. 6	41.896	159	99.60	220	10.011	85	71.21	176	39.877	51	60.36	37	61.741	135	57.06	204
16	41.737	112	97.40	256	9.926	48	69.45	201	39.826	15	60.73	37	61.606	93	55.02	238
26	41.625	62	94.84	284	9.878	10	67.44	219	39.811	22	61.10	34	61.513	49	52.64	266
36	41.563		92.00		9.868		65.25		39.833		61.44		61.464		49.98	
Mittl. Ort	40.754		68.65		7.890		44.24		36.972		77.88		60.150		26.30	
sec δ, tg δ	1.454		+1.056		1.099		+0.455		1.025		−0.226		1.307		+0.841	
a, *a′*	+1.9		+10.9		+2.6		+11.1		+3.3		+11.1		+2.2		+11.5	
b, *b′*	+0.04		+ 0.84		+0.02		+ 0.83		−0.01		+ 0.83		+0.03		+ 0.82	

Scheinbare Sternörter 1938

Tag	764) α Pavonis				767) ϑ Cephei				768) ε Delphini				770) 73 Draconis			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	20h 20m		−56° 55′		20h 28m		+62° 46′		20h 30m		+11° 5′		20h 32m		+74° 44′	
Jan. 1	44.335 s	35	68.53″	228	30.72 s	14	82.06″	304	14.787 s	17	36.55″	157	16.80 s	33	49.42″	297
11	44.370	103	66.25	241	30.58	5	79.02	324	14.804	52	34.98	159	16.47	19	46.45	322
21	44.473	168	63.84	247	30.53	3	75.78	331	14.856	85	33.39	154	16.28	4	43.23	334
31	44.641	227	61.37	248	30.56	12	72.47	326	14.941	118	31.85	141	16.24	12	39.89	332
Febr. 10	44.868	283	58.89	244	30.68	20	69.21	307	15.059	149	30.44	121	16.36	27	36.57	318
20	45.151	333	56.45	235	30.88	28	66.14	277	15.208	178	29.23	96	16.63	42	33.39	291
März 2	45.484	378	54.10	222	31.16	35	63.37	236	15.386	206	28.27	65	17.05	55	30.48	253
12	45.862	416	51.88	204	31.51	41	61.01	185	15.592	231	27.62	29	17.60	67	27.95	205
22	46.278	449	49.84	183	31.92	46	59.16	127	15.823	253	27.33	8	18.27	75	25.90	148
Apr. 1	46.727	475	48.01	159	32.38	50	57.89	66	16.076	272	27.41	47	19.02	82	24.42	87
11	47.202	493	46.42	131	32.88	53	57.23	1	16.348	286	27.88	86	19.84	86	23.55	24
21	47.695	505	45.11	100	33.41	53	57.22	63	16.634	295	28.74	120	20.70	87	23.31	40
Mai 1	48.200	507	44.11	67	33.94	52	57.85	123	16.929	299	29.94	152	21.57	86	23.71	102
11	48.707	498	43.44	33	34.46	51	59.08	180	17.228	295	31.46	179	22.43	81	24.73	160
21	49.205	479	43.11	2	34.97	47	60.88	230	17.523	286	33.25	200	23.24	74	26.33	213
31	49.684	449	43.13	38	35.44	42	63.18	274	17.809	269	35.25	215	23.98	66	28.46	259
Juni 10	50.133	408	43.51	73	35.86	36	65.92	309	18.078	245	37.40	224	24.64	56	31.05	297
20	50.541	357	44.24	105	36.22	29	69.01	335	18.323	216	39.64	226	25.20	43	34.02	326
30	50.898	296	45.29	134	36.51	21	72.36	354	18.539	180	41.90	224	25.63	31	37.28	349
Juli 10	51.194	228	46.63	160	36.72	14	75.90	364	18.719	139	44.14	216	25.94	16	40.77	362
20	51.422	153	48.23	179	36.86	5	79.54	364	18.858	97	46.30	202	26.10	3	44.39	366
29 *)	[28] 51.575	74	50.02	192	[30] 36.91	3	83.18	357	[30] 18.955	52	48.32	186	[31] 26.13	11	48.05	363
Aug. 8	51.649	5	51.94	199	36.88	12	86.75	342	19.007	7	50.18	167	26.02	25	51.68	352
18	51.644	82	53.93	198	36.76	20	90.17	320	19.014	36	51.85	144	25.77	38	55.20	333
28	51.562	154	55.91	188	36.56	26	93.37	292	18.978	75	53.29	119	25.39	50	58.53	307
Sept. 7	51.408	217	57.79	171	36.30	33	96.29	256	18.903	110	54.48	95	24.89	60	61.60	275
17	51.191	269	59.50	146	35.97	38	98.85	216	18.793	138	55.43	69	24.29	69	64.35	237
27	50.922	307	60.96	115	35.59	42	101.01	171	18.655	157	56.12	42	23.60	77	66.72	193
Okt. 7	50.615	329	62.11	79	35.17	44	102.72	122	18.498	169	56.54	16	22.83	81	68.65	144
17	50.286	336	62.90	38	34.73	46	103.94	68	18.329	171	56.70	11	22.02	85	70.09	92
27	49.950	325	63.28	5	34.27	46	104.62	13	18.158	164	56.59	36	21.17	85	71.01	36
Nov. 6	49.625	298	63.23	48	33.81	45	104.75	44	17.994	151	56.23	62	20.32	84	71.37	22
16	49.327	258	62.75	89	33.36	41	104.31	101	17.843	131	55.61	87	19.48	80	71.15	79
26	49.069	207	61.86	128	32.95	38	103.30	156	17.712	105	54.74	108	18.68	74	70.36	137
Dez. 6	48.862	146	60.58	163	32.57	32	101.74	206	17.607	74	53.66	128	17.94	65	68.99	191
16	48.716	80	58.95	191	32.25	26	99.68	251	17.533	41	52.38	144	17.29	55	67.08	239
26	48.636	11	57.04	215	31.99	19	97.17	288	17.492	7	50.94	155	16.74	42	64.69	279
36	48.625		54.89		31.80		94.29		17.485		49.39		16.32		61.90	
Mittl. Ort	45.319		67.73		32.69		66.89		15.051		28.68		20.93		32.93	
sec δ, tg δ	1.833		−1.536		2.187		+1.945		1.019		+0.196		3.800		+3.666	
a, a′	+4.8		+11.6		+1.0		+12.1		+2.9		+12.2		−0.8		+12.4	
b, b′	−0.06		+ 0.82		+0.08		+ 0.80		+0.01		+ 0.79		+0.15		+ 0.79	

*) Bei Stern 767), 768) und 770) lies Juli 30.

Tag		769) α Indi AR.		769) α Indi Dekl.		771) β Delphini AR.		771) β Delphini Dekl.		773) υ Capricorni AR.		773) υ Capricorni Dekl.		774) α Delphini AR.		774) α Delphini Dekl.	
1938		$20^h\ 33^m$		$-47°\ 30'$		$20^h\ 34^m$		$+14°\ 22'$		$20^h\ 36^m$		$-18°\ 21'$		$20^h\ 36^m$		$+15°\ 41'$	
Jan.	1	12.157	25	34.33	177	38.211	10	50.35	171	31.157	28	26.75	7	45.213	7	40.49	176
	11	12.182	77	32.56	191	38.221	45	48.64	174	31.185	63	26.68	15	45.220	42	38.73	180
	21	12.259	128	30.65	201	38.266	79	46.90	170	31.248	97	26.53	25	45.262	76	36.93	177
	31	12.387	175	28.64	208	38.345	113	45.20	159	31.345	130	26.28	37	45.338	110	35.16	165
Febr.	10	12.562	220	26.56	209	38.458	144	43.61	139	31.475	161	25.91	49	45.448	142	33.51	145
	20	12.782	260	24.47	207	38.602	175	42.22	112	31.636	189	25.42	63	45.590	172	32.06	119
März	2	13.042	297	22.40	202	38.777	203	41.10	80	31.825	216	24.79	78	45.762	202	30.87	86
	12	13.339	331	20.38	193	38.980	229	40.30	43	32.041	241	24.01	92	45.964	229	30.01	49
	22	13.670	360	18.45	181	39.209	253	39.87	3	32.282	263	23.09	106	46.193	252	29.52	8
Apr.	1	14.030	384	16.64	165	39.462	272	39.84	38	32.545	283	22.03	118	46.445	272	29.44	34
	11	14.414	403	14.99	147	39.734	288	40.22	79	32.828	298	20.85	128	46.717	288	29.78	76
	21	14.817	416	13.52	125	40.022	297	41.01	117	33.126	309	19.57	135	47.005	299	30.54	115
Mai	1	15.233	421	12.27	99	40.319	301	42.18	151	33.435	315	18.22	138	47.304	302	31.69	151
	11	15.654	419	11.28	71	40.620	299	43.69	181	33.750	315	16.84	137	47.606	300	33.20	181
	21	16.073	406	10.57	42	40.919	289	45.50	205	34.065	307	15.47	131	47.906	291	35.01	207
	31	16.479	385	10.15	11	41.208	272	47.55	223	34.372	292	14.16	123	48.197	274	37.08	226
Juni	10	16.864	355	10.04	20	41.480	249	49.78	234	34.664	270	12.93	110	48.471	250	39.34	238
	20	17.219	315	10.24	51	41.729	219	52.12	239	34.934	242	11.83	95	48.721	220	41.72	244
	30	17.534	267	10.75	80	41.948	183	54.51	238	35.176	206	10.88	78	48.941	185	44.16	244
Juli	10	17.801	212	11.55	106	42.131	143	56.89	232	35.382	166	10.10	58	49.126	144	46.60	238
	20	18.013	151	12.61	128	42.274	99	59.21	220	35.548	121	9.52	39	49.270	100	48.98	227
	30	18.164	87	13.89	145	42.373	54	61.41	204	35.669	74	9.13	19	49.370	55	51.25	211
Aug.	8	[31] 18.251	22	15.34	157	[31] 42.427	9	63.45	184	[1] 35.743	26	8.94	2	[1] 49.425	10	53.36	191
	18	18.273	42	16.91	162	42.436	35	65.29	162	35.769	20	8.92	13	49.435	33	55.27	169
	28	18.231	102	18.53	159	42.401	75	66.91	137	35.749	63	9.05	26	49.402	74	56.96	144
Sept.	7	18.129	155	20.12	151	42.326	109	68.28	110	35.686	101	9.31	36	49.328	109	58.40	117
	17	17.974	200	21.63	135	42.217	137	69.38	82	35.585	131	9.67	43	49.219	138	59.57	88
	27	17.774	232	22.98	113	42.080	158	70.20	54	35.454	154	10.10	46	49.081	159	60.45	59
Okt.	7	17.542	252	24.11	85	41.922	171	70.74	25	35.300	168	10.56	47	48.922	171	61.04	29
	17	17.290	259	24.96	54	41.751	174	70.99	5	35.132	171	11.03	44	48.751	175	61.33	1
	27	17.031	253	25.50	20	41.577	168	70.94	33	34.961	166	11.47	40	48.576	170	61.32	31
Nov.	6	16.778	233	25.70	16	41.409	155	70.61	61	34.795	151	11.87	35	48.406	158	61.01	61
	16	16.545	203	25.54	51	41.254	136	70.00	88	34.644	128	12.22	28	48.248	138	60.40	89
	26	16.342	163	25.03	84	41.118	110	69.12	114	34.516	101	12.50	22	48.110	113	59.51	115
Dez.	6	16.179	116	24.19	114	41.008	81	67.98	137	34.415	69	12.72	15	47.997	84	58.36	139
	16	16.063	65	23.05	141	40.927	48	66.61	155	34.346	33	12.87	7	47.913	51	56.97	159
	26	15.998	12	21.64	163	40.879	14	65.06	168	34.313	3	12.94	1	47.862	18	55.38	173
	36	15.986		20.01		40.865		63.38		34.316		12.95		47.844		53.65	
Mittl. Ort		12.767		33.63		38.486		41.80		31.365		29.73		45.492		31.65	
sec δ, tg δ		1.481		−1.092		1.032		+0.256		1.054		−0.332		1.039		+0.281	
a, *a′*		+4.2		+12.4		+2.8		+12.5		+3.4		+12.6		+2.8		+12.7	
b, *b′*		−0.05		+ 0.78		+0.01		+ 0.78		−0.01		+ 0.78		+0.01		+ 0.78	

Scheinbare Sternörter 1938

Tag	777) α Cygni				775) β Pavonis				780) ε Cygni				783) η Cephei			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$20^h\ 39^m$		$+45°\ 3'$		$20^h\ 39^m$		$-66°\ 25'$		$20^h\ 43^m$		$+33°\ 44'$		$20^h\ 43^m$		$+61°\ 35'$	
	s		″		s		″		s		″		s		″	
Jan. 1	18.248	55	42.23	274	22.10	3	43.45	269	41.628	27	25.71	242	60.22	16	67.11	290
11	18.193	4	39.49	291	22.07	6	40.76	287	41.601	13	23.29	253	60.06	7	64.21	313
21	18.189	46	36.58	296	22.13	15	37.89	296	41.614	55	20.76	256	59.99	0	61.08	324
31	18.235	97	33.62	289	22.28	25	34.93	298	41.669	96	18.20	248	59.99	9	57.84	322
Febr. 10	18.332	147	30.73	270	22.53	32	31.95	294	41.765	136	15.72	229	60.08	17	54.62	308
20	18.479	195	28.03	240	22.85	39	29.01	283	41.901	176	13.43	200	60.25	24	51.54	281
März 2	18.674	240	25.63	201	23.24	46	26.18	266	42.077	212	11.43	163	60.49	31	48.73	242
12	18.914	280	23.62	153	23.70	51	23.52	245	42.289	246	9.80	119	60.80	38	46.31	195
22	19.194	315	22.09	99	24.21	57	21.07	219	42.535	275	8.61	69	61.18	43	44.36	139
Apr. 1	19.509	342	21.10	41	24.78	61	18.88	188	42.810	300	7.92	16	61.61	48	42.97	78
11	19.851	361	20.69	18	25.39	64	17.00	154	43.110	319	7.76	38	62.09	50	42.19	15
21	20.212	373	20.87	76	26.03	66	15.46	117	43.429	330	8.14	90	62.59	51	42.04	47
Mai 1	20.585	375	21.63	132	26.69	66	14.29	77	43.759	334	9.04	140	63.10	52	42.51	109
11	20.960	367	22.95	183	27.35	65	13.52	35	44.093	331	10.44	184	63.62	50	43.60	167
21	21.327	350	24.78	229	28.00	64	13.17	7	44.424	318	12.28	224	64.12	47	45.27	219
31	21.677	323	27.07	266	28.64	60	13.24	49	44.742	298	14.52	256	64.59	43	47.46	263
Juni 10	22.000	288	29.73	296	29.24	55	13.73	90	45.040	270	17.08	280	65.02	37	50.09	301
20	22.288	246	32.69	319	29.79	48	14.63	128	45.310	235	19.88	297	65.39	32	53.10	331
30	22.534	197	35.88	333	30.27	41	15.91	163	45.545	194	22.85	307	65.71	24	56.41	351
Juli 10	22.731	144	39.21	339	30.68	32	17.54	192	45.739	149	25.92	309	65.95	16	59.92	363
20	22.875	88	42.60	337	31.00	22	19.46	215	45.888	99	29.01	304	66.11	9	63.55	367
30	$_1$22.963	30	45.97	327	$_1$31.22	12	21.61	231	$_3$45.987	50	32.05	293	$_3$66.20	0	67.22	363
Aug. 8	22.993	28	49.24	311	31.34	2	23.92	239	46.037	1	34.98	275	66.20	7	70.85	351
18	22.965	82	52.35	288	31.36	10	26.31	238	46.036	50	37.73	252	66.13	16	74.36	331
28	22.883	132	55.23	260	31.26	19	28.69	227	45.986	94	40.25	225	65.97	22	77.67	305
Sept. 7	22.751	176	57.83	226	31.07	28	30.96	209	45.892	134	42.50	193	65.75	28	80.72	272
17	22.575	213	60.09	187	30.79	35	33.05	181	45.758	166	44.43	157	65.47	34	83.44	234
27	22.362	241	61.96	146	30.44	42	34.86	145	45.592	190	46.00	120	65.13	38	85.78	190
Okt. 7	22.121	259	63.42	101	30.02	46	36.31	103	45.402	207	47.20	79	64.75	41	87.68	142
17	21.862	268	64.43	52	29.56	47	37.34	56	45.195	213	47.99	36	64.34	43	89.10	90
27	21.594	266	64.95	2	29.09	47	37.90	6	44.982	211	48.35	7	63.91	44	90.00	35
Nov. 6	21.328	255	64.97	49	28.62	45	37.96	46	44.771	201	48.28	51	63.47	42	90.35	21
16	21.073	235	64.48	98	28.17	40	37.50	96	44.570	182	47.77	95	63.05	40	90.14	79
26	20.838	207	63.50	147	27.77	34	36.54	143	44.388	157	46.82	135	62.65	37	89.35	134
Dez. 6	20.631	172	62.03	192	27.43	27	35.11	186	44.231	128	45.47	173	62.28	32	88.01	186
16	20.459	132	60.11	230	27.16	18	33.25	223	44.103	92	43.74	206	61.96	26	86.15	233
26	20.327	86	57.81	262	26.98	10	31.02	252	44.011	55	41.68	232	61.70	20	83.82	272
36	20.241		55.19		26.88		28.50		43.956		39.36		61.50		81.10	
Mittl. Ort	19.061		28.45		23.73		41.03		42.121		13.45		61.91		50.86	
sec δ tg δ	1.416		+1.002		2.501		−2.292		1.203		+0.668		2.102		+1.849	
a, *a′*	+2.0		+12.8		+5.4		+12.8		+2.4		+13.1		+1.2		+13.2	
b, *b′*	+0.04		+ 0.77		−0.10		+ 0.77		+0.03		+ 0.76		+0.08		+ 0.75	

Tag	781) ε Aquarii AR.		Dekl.		784) λ Cygni AR.		Dekl.		785) β Indi AR.		Dekl.		786) 32 Vulpeculae AR.		Dekl.	
1938	$20^h\ 44^m$		$-9°\ 43'$		$20^h\ 44^m$		$+36°\ 15'$		$20^h\ 49^m$		$-58°\ 40'$		$20^h\ 51^m$		$+27°\ 49'$	
	s		″		s		″		s		″		s		″	
Jan. 1	19.101	18	21.64	42	59.013	35	56.21	249	57.602	23	85.44	230	54.660	24	26.71	219
11	19.119	52	22.06	37	58.978	7	53.72	263	57.579	45	83.14	250	54.636	12	24.52	229
21	19.171	84	22.43	27	58.985	50	51.09	266	57.624	113	80.64	262	54.648	51	22.23	231
31	19.255	115	22.70	15	59.035	93	48.43	258	57.737	177	78.02	269	54.699	89	19.92	222
Febr. 10	19.370	145	22.85	0	59.128	135	45.85	240	57.914	237	75.33	269	54.788	126	17.70	205
20	19.515	174	22.85	18	59.263	176	43.45	212	58.151	294	72.64	265	54.914	162	15.65	177
März 2	19.689	200	22.67	38	59.439	214	41.33	174	58.445	346	69.99	255	55.076	196	13.88	143
12	19.889	226	22.29	59	59.653	249	39.59	128	58.791	392	67.44	239	55.272	229	12.45	101
22	20.115	249	21.70	80	59.902	280	38.31	79	59.183	433	65.05	220	55.501	257	11.44	55
Apr. 1	20.364	269	20.90	101	60.182	306	37.52	24	59.616	468	62.85	197	55.758	282	10.89	6
11	20.633	286	19.89	119	60.488	325	37.28	31	60.084	496	60.88	169	56.040	301	10.83	44
21	20.919	298	18.70	135	60.813	337	37.59	84	60.580	515	59.19	137	56.341	315	11.27	93
Mai 1	21.217	304	17.35	147	61.150	341	38.43	136	61.095	524	57.82	103	56.656	320	12.20	138
11	21.521	304	15.88	155	61.491	337	39.79	182	61.619	524	56.79	67	56.976	319	13.58	180
21	21.825	299	14.33	157	61.828	324	41.61	223	62.143	512	56.12	28	57.295	310	15.38	214
31	22.124	285	12.76	156	62.152	303	43.84	256	62.655	488	55.84	11	57.605	293	17.52	244
Juni 10	22.409	264	11.20	149	62.455	275	46.40	283	63.143	453	55.95	49	57.898	268	19.96	266
20	22.673	237	9.71	139	62.730	238	49.23	302	63.596	406	56.44	87	58.166	237	22.62	280
30	22.910	204	8.32	126	62.968	196	52.25	313	64.002	347	57.31	121	58.403	199	25.42	288
Juli 10	23.114	165	7.06	109	63.164	150	55.38	315	64.349	280	58.52	152	58.602	156	28.30	288
20	23.279	122	5.97	92	63.314	99	58.53	312	64.629	205	60.04	178	58.758	111	31.18	282
30	23.401	77	5.05	72	63.413	48	61.65	302	64.834	124	61.82	197	58.869	63	34.00	270
Aug. 8	[3] 23.478	31	4.33	53	[3] 63.461	4	64.67	284	[4] 64.958	42	63.79	209	[5] 58.932	14	36.70	253
18	23.509	13	3.80	35	63.457	54	67.51	261	65.000	41	65.88	213	58.946	32	39.23	230
28	23.496	55	3.45	18	63.403	99	70.12	234	64.959	119	68.01	210	58.914	76	41.53	204
Sept. 7	23.441	92	3.27	2	63.304	140	72.46	202	64.840	191	70.11	197	58.838	114	43.57	174
17	23.349	122	3.25	11	63.164	173	74.48	166	64.649	252	72.08	176	58.724	145	45.31	141
27	23.227	144	3.36	22	62.991	199	76.14	127	64.397	300	73.84	147	58.579	170	46.72	107
Okt. 7	23.083	158	3.58	30	62.792	215	77.41	85	64.097	333	75.31	112	58.409	186	47.79	69
17	22.925	162	3.88	37	62.577	223	78.26	42	63.764	349	76.43	71	58.223	194	48.48	30
27	22.763	158	4.25	42	62.354	221	78.68	4	63.415	348	77.14	28	58.029	192	48.78	9
Nov. 6	22.605	146	4.67	46	62.133	210	78.64	49	63.067	332	77.42	18	57.837	183	48.69	48
16	22.459	126	5.13	49	61.923	193	78.15	94	62.735	299	77.24	64	57.654	166	48.21	87
26	22.333	101	5.62	50	61.730	168	77.21	137	62.436	254	76.60	107	57.488	144	47.34	124
Dez. 6	22.232	71	6.12	50	61.562	137	75.84	177	62.182	199	75.53	148	57.344	116	46.10	158
16	22.161	39	6.62	50	61.425	102	74.07	211	61.983	137	74.05	183	57.228	84	44.52	187
26	22.122	6	7.12	48	61.323	63	71.96	239	61.846	69	72.22	212	57.144	49	42.65	210
36	22.116		7.60		61.260		69.57		61.777		70.10		57.095		40.55	
Mittl. Ort	19.265		26.00		59.552		43.46		58.621		82.88		55.012		15.11	
sec δ, tg δ	1.015		−0.171		1.240		+0.734		1.924		−1.644		1.131		+0.528	
a, *a′*	+3.2		+13.2		+2.3		+13.2		+4.7		+13.5		+2.6		+13.7	
b, *b′*	−0.01		+ 0.75		+0.03		+ 0.75		−0.07		+ 0.74		+0.02		+ 0.73	

Scheinbare Sternörter 1938

Tag	788) ν Cygni AR.		788) ν Cygni Dekl.		790) ζ Microscopii AR.		790) ζ Microscopii Dekl.		793) 61 Cygni pr.[1] AR.		793) 61 Cygni pr.[1] Dekl.		794) ν Aquarii AR.		794) ν Aquarii Dekl.	
1938	20h 54m		+40° 55′		20h 59m		−38° 52′		21h 4m		+38° 26′		21h 6m		−11° 37′	
Jan. 1	51.053 s	58	53.17 "	255	0.195 s	2	31.05 "	124	6.450 s	46	50.87 "	235	13.040 s	1	21.88 "	30
11	50.995	13	50.62	273	0.193	41	29.81	141	6.404	5	48.52	253	13.039	31	22.18	21
21	50.982	32	47.89	279	0.234	83	28.40	156	6.399	38	45.99	259	13.070	63	22.39	11
31	51.014	78	45.10	274	0.317	123	26.84	167	6.437	83	43.40	254	13.133	94	22.50	2
Febr. 10	51.092	125	42.36	258	0.440	162	25.17	176	6.520	127	40.86	239	13.227	124	22.48	17
20	51.217	170	39.78	232	0.602	199	23.41	183	6.647	170	38.47	213	13.351	154	21.31	34
März 2	51.387	213	37.46	195	0.801	233	21.58	185	6.817	211	36.34	178	13.505	183	21.97	54
12	51.600	253	35.51	150	1.034	266	19.73	186	7.028	251	34.56	134	13.688	210	21.43	74
22	51.853	287	34.01	99	1.300	295	17.87	183	7.279	284	33.22	85	13.898	236	20.69	94
Apr. 1	52.140	316	33.02	44	1.595	321	16.04	177	7.563	314	32.37	32	14.134	260	19.75	113
11	52.456	339	32.58	12	1.916	344	14.27	168	7.877	337	32.05	24	14.394	279	18.62	130
21	52.795	353	32.70	69	2.260	360	12.59	154	8.214	352	32.29	79	14.673	295	17.32	144
Mai 1	53.148	358	33.39	123	2.620	371	11.05	137	8.566	360	33.08	131	14.968	305	15.88	154
11	53.506	356	34.62	172	2.991	374	9.68	117	8.926	358	34.39	180	15.273	309	14.34	160
21	53.862	344	36.34	217	3.365	369	8.51	93	9.284	348	36.19	223	15.582	307	12.74	162
31	54.206	322	38.51	254	3.734	356	7.58	67	9.632	329	38.42	259	15.889	296	11.12	158
Juni 10	54.528	292	41.05	285	4.090	333	6.91	38	9.961	302	41.01	289	16.185	278	9.54	150
20	54.820	255	43.90	307	4.423	303	6.53	9	10.263	267	43.90	310	16.463	254	8.04	139
30	55.075	212	46.97	321	4.726	264	6.44	20	10.530	225	47.00	324	16.717	223	6.65	123
Juli 10	55.287	163	50.18	327	4.990	218	6.64	47	10.755	178	50.24	330	16.940	185	5.42	106
20	55.450	110	53.45	327	5.208	166	7.11	73	10.933	127	53.54	329	17.125	143	4.36	86
30	55.560	55	56.72	319	5.374	111	7.84	96	11.060	75	56.83	321	17.268	99	3.50	65
Aug. 8	[5] 55.615	2	59.91	304	[6] 5.485	54	8.80	113	[8] 11.135	23	60.04	305	[8] 17.367	53	2.85	45
18	55.617	51	62.95	283	5.539	3	9.93	126	11.158	29	63.09	285	17.420	7	2.40	26
28	55.566	100	65.78	256	5.536	57	11.19	132	11.129	77	65.94	259	17.427	35	2.14	8
Sept. 7	55.466	143	68.34	224	5.479	106	12.51	132	11.052	119	68.53	228	17.392	74	2.06	8
17	55.323	180	70.58	189	5.373	147	13.83	127	10.933	155	70.81	193	17.318	107	2.14	22
27	55.143	208	72.47	149	5.226	180	15.10	115	10.778	183	72.74	154	17.211	132	2.36	32
Okt. 7	54.935	228	73.96	106	5.046	202	16.25	98	10.595	203	74.28	113	17.079	149	2.68	39
17	54.707	238	75.02	61	4.844	213	17.23	76	10.392	214	75.41	69	16.930	158	3.07	44
27	54.469	239	75.63	13	4.631	211	17.99	50	10.178	216	76.10	23	16.772	157	3.51	48
Nov. 6	54.230	231	75.76	35	4.420	200	18.49	22	9.962	209	76.33	24	16.615	148	3.99	49
16	53.999	215	75.41	83	4.220	179	18.71	6	9.753	194	76.09	70	16.467	132	4.48	48
26	53.784	192	74.58	130	4.041	150	18.65	35	9.559	172	75.39	114	16.335	110	4.96	47
Dez. 6	53.592	162	73.28	173	3.891	113	18.30	62	9.387	144	74.25	156	16.225	84	5.43	45
16	53.430	127	71.55	211	3.778	74	17.68	86	9.243	111	72.69	193	16.141	55	5.88	41
26	53.303	86	69.44	242	3.704	32	16.82	109	9.132	74	70.76	223	16.086	24	6.29	36
36	53.217		67.02		3.672		15.73		9.058		68.53		16.062		6.65	
Mittl. Ort	51.644		39.11		0.557		30.25		6.937		36.98		13.143		25.72	
sec δ, tg δ	1.324		+0.867		1.285		−0.806		1.277		+0.794		1.021		−0.206	
a, *a′*	+2.2		+13.9		+3.8		+14.1		+2.3		+14.4		+3.3		+14.6	
b, *b′*	+0.04		+ 0.72		−0.04		+ 0.71		+0.04		+ 0.69		−0.01		+ 0.69	

[1]) Die jährliche Parallaxe (0".300) ist bereits berücksichtigt.

Tag	795) Br 2777				797) ζ Cygni				800) α Equulei				803) α Cephei			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$21^h\ 6^m$		$+77°\ 52'$		$21^h\ 10^m$		$+29°\ 58'$		$21^h\ 12^m$		$+4°\ 59'$		$21^h\ 17^m$		$+62°\ 19'$	
	s		″		s		″		s		″		s		″	
Jan. 1	41.97	57	51.02	265	17.491	45	30.76	215	43.423	14	33.03	115	4.69	21	39.22	265
11	41.40	40	48.37	299	17.446	8	28.61	230	43.409	17	31.88	114	4.48	14	36.57	295
21	41.00	22	45.38	321	17.438	29	26.31	234	43.426	47	30.74	110	4.34	7	33.62	315
31	40.78	3	42.17	329	17.467	67	23.97	229	43.473	79	29.64	99	4.27	2	30.47	321
Febr. 10	40.75	18	38.88	326	17.534	106	21.68	215	43.552	109	28.65	82	4.29	11	27.26	316
20	40.93	37	35.62	309	17.640	144	19.53	190	43.661	140	27.83	61	4.40	18	24.10	296
März 2	41.30	54	32.53	280	17.784	181	17.63	157	43.801	170	27.22	35	4.58	26	21.14	266
12	41.84	71	29.73	240	17.965	216	16.06	118	43.971	198	26.87	5	4.84	34	18.48	225
22	42.55	85	27.33	190	18.181	248	14.88	71	44.169	226	26.82	28	5.18	40	16.23	175
Apr. 1	43.40	95	25.43	134	18.429	277	14.17	23	44.395	250	27.10	60	5.58	46	14.48	118
11	44.35	103	24.09	73	18.706	299	13.94	27	44.645	270	27.70	92	6.04	49	13.30	57
21	45.38	107	23.36	10	19.005	317	14.21	77	44.915	287	28.62	122	6.53	52	12.73	5
Mai 1	46.45	107	23.26	52	19.322	325	14.98	125	45.202	298	29.84	149	7.05	53	12.78	66
11	47.52	105	23.78	112	19.647	328	16.23	168	45.500	302	31.33	171	7.58	53	13.44	126
21	48.57	99	24.90	169	19.975	321	17.91	206	45.802	299	33.04	188	8.11	51	14.70	181
31	49.56	89	26.59	220	20.296	306	19.97	237	46.101	289	34.92	200	8.62	48	16.51	230
Juni 10	50.45	79	28.79	264	20.602	284	22.34	263	46.390	272	36.92	206	9.10	43	18.81	273
20	51.24	66	31.43	301	20.886	255	24.97	281	46.662	247	38.98	206	9.53	38	21.54	308
30	51.90	50	34.44	331	21.141	217	27.78	291	46.909	217	41.04	202	9.91	31	24.62	335
Juli 10	52.40	34	37.75	352	21.358	176	30.69	295	47.126	180	43.06	192	10.22	23	27.97	354
20	52.74	18	41.27	364	21.534	130	33.64	291	47.306	140	44.98	179	10.45	15	31.51	364
30	52.92	0	44.91	370	21.664	82	36.55	282	47.446	96	46.77	162	10.60	8	35.15	367
Aug. 8*)	8 52.92	17	48.61	366	9 21.746	33	39.37	267	10 47.542	52	48.39	143	11 10.68	1	38.82	361
18	52.75	33	52.27	356	21.779	14	42.04	246	47.594	7	49.82	121	10.67	8	42.43	348
28	52.42	48	55.83	337	21.765	60	44.50	221	47.601	34	51.03	99	10.59	17	45.91	327
Sept. 7	51.94	63	59.20	312	21.705	100	46.71	193	47.567	71	52.02	76	10.42	23	49.18	301
17	51.31	76	62.32	280	21.605	134	48.64	160	47.496	103	52.78	53	10.19	29	52.19	267
27	50.55	86	65.12	241	21.471	161	50.24	125	47.393	127	53.31	31	9.90	34	54.86	227
Okt. 7	49.69	94	67.53	197	21.310	180	51.49	88	47.266	145	53.62	10	9.56	38	57.13	182
17	48.75	101	69.50	148	21.130	191	52.37	49	47.121	154	53.72	10	9.18	41	58.95	133
27	47.74	105	70.98	94	20.939	193	52.86	9	46.967	154	53.62	31	8.77	42	60.28	80
Nov. 6	46.69	106	71.92	37	20.746	187	52.95	32	46.813	148	53.31	49	8.35	43	61.08	24
16	45.63	104	72.29	22	20.559	175	52.63	73	46.665	134	52.82	66	7.92	42	61.32	34
26	44.59	99	72.07	82	20.384	155	51.90	111	46.531	115	52.16	82	7.50	39	60.98	92
Dez. 6	43.60	91	71.25	140	20.229	131	50.79	148	46.416	91	51.34	95	7.11	36	60.06	147
16	42.69	81	69.85	195	20.098	102	49.31	179	46.325	64	50.39	107	6.75	31	58.59	198
26	41.88	67	67.90	241	19.996	69	47.52	205	46.261	36	49.32	114	6.44	25	56.61	243
36	41.21		65.49		19.927		45.47		46.225		48.18		6.19		54.18	
Mittl. Ort	46.52		31.55		17.779		18.00		43.505		25.60		6.06		20.58	
sec δ, tg δ	4.761		+4.655		1.154		+0.577		1.004		+0.087		2.153		+1.907	
a, *a'*	1.2		+14.6		+2.6		+14.8		+3.0		+14.9		+1.4		+15.2	
b, *b'*	+0.23		+ 0.69		+0.03		+ 0.67		0.00		+ 0.67		+0.10		+ 0.65	

*) Bei Stern 797), 800) und 803) lies Aug. 9.

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Tag		804) ι Pegasi AR.		804) ι Pegasi Dekl.		805) γ Pavonis AR.		805) γ Pavonis Dekl.		806) ζ Capricorni AR.		806) ζ Capricorni Dekl.		809) β Cephei AR.		809) β Cephei Dekl.	
1938		21ʰ 19ᵐ		+19° 32′		21ʰ 21ᵐ		−65° 38′		21ʰ 23ᵐ		−22° 40′		21ʰ 27ᵐ		+70° 17′	
		s		″		s		″		s		″		s		″	
Jan.	1	12.979	35	28.46	174	19.03	12	59.14	251	7.753	18	50.43	30	50.02	36	38.05	252
	11	12.944	2	26.72	183	18.91	5	56.63	277	7.735	16	50.13	46	49.66	26	35.53	289
	21	12.942	30	24.89	185	18.86	4	53.86	297	7.751	49	49.67	60	49.40	15	32.64	313
	31	12.972	64	23.04	177	18.90	13	50.89	309	7.800	81	49.07	74	49.25	4	29.51	326
Febr.	10	13.036	99	21.27	163	19.03	20	47.80	314	7.881	114	48.33	89	49.21	8	26.25	325
	20	13.135	132	19.64	140	19.23	28	44.66	312	7.995	146	47.44	104	49.29	20	23.00	311
März	2	13.267	166	18.24	109	19.51	36	41.54	303	8.141	177	46.40	119	49.49	31	19.89	285
	12	13.433	198	17.15	75	19.87	42	38.51	288	8.318	207	45.21	132	49.80	42	17.04	248
	22	13.631	229	16.40	34	20.29	47	35.63	268	8.525	235	43.89	144	50.22	51	14.56	201
Apr.	1	13.860	255	16.06	8	20.76	53	32.95	243	8.760	263	42.45	153	50.73	58	12.55	146
	11	14.115	278	16.14	52	21.29	57	30.52	212	9.023	285	40.92	161	51.31	65	11.09	86
	21	14.393	296	16.66	94	21.86	61	28.40	177	9.308	305	39.31	164	51.96	69	10.23	25
Mai	1	14.689	307	17.60	133	22.47	62	26.63	138	9.613	317	37.67	164	52.65	70	9.98	38
	11	14.996	312	18.93	169	23.09	64	25.25	97	9.930	326	36.03	159	53.35	70	10.36	99
	21	15.308	309	20.62	199	23.73	63	24.28	53	10.256	325	34.44	149	54.05	67	11.35	157
	31	15.617	297	22.61	224	24.36	61	23.75	8	10.581	318	32.95	136	54.72	64	12.92	209
Juni	10	15.914	279	24.85	241	24.97	58	23.67	37	10.899	303	31.59	118	55.36	57	15.01	255
	20	16.193	254	27.26	253	25.55	53	24.04	81	11.202	278	30.41	99	55.93	49	17.56	295
	30	16.447	221	29.79	258	26.08	46	24.85	121	11.480	249	29.42	76	56.42	41	20.51	326
Juli	10	16.668	183	32.37	257	26.54	39	26.06	159	11.729	211	28.66	52	56.83	31	23.77	349
	20	16.851	141	34.94	250	26.93	30	27.65	190	11.940	169	28.14	28	57.14	21	27.26	365
	30	16.992	96	37.44	238	27.23	21	29.55	216	12.109	122	27.86	4	57.35	10	30.91	372
Aug.	9	17.088	50	39.82	221	27.44	11	31.71	234	12.231	73	27.82	18	57.45	1	34.63	370
	18	[12] 17.138	6	42.03	200	[12] 27.55	0	34.05	243	[13] 12.304	26	28.00	37	[14] 57.44	11	38.33	362
	28	17.144	38	44.03	177	27.55	10	36.48	243	12.330	22	28.37	54	57.33	22	41.95	346
Sept.	7	17.106	76	45.80	150	27.45	19	38.91	234	12.308	64	28.91	66	57.11	31	45.41	322
	17	17.030	109	47.30	121	27.26	28	41.25	214	12.244	100	29.57	73	56.80	40	48.63	292
	27	16.921	136	48.51	92	26.98	35	43.39	186	12.144	131	30.30	77	56.40	47	51.55	254
Okt.	7	16.785	154	49.43	60	26.63	40	45.25	150	12.013	151	31.07	76	55.93	52	54.09	212
	17	16.631	165	50.03	28	26.23	44	46.75	107	11.862	164	31.83	71	55.41	57	56.21	164
	27	16.466	167	50.31	4	25.79	45	47.82	58	11.698	166	32.54	62	54.84	61	57.85	110
Nov.	6	16.299	163	50.27	36	25.34	45	48.40	6	11.532	161	33.16	52	54.23	61	58.95	54
	16	16.136	151	49.91	68	24.89	43	48.46	45	11.371	147	33.68	39	53.62	61	59.49	5
	26	15.985	133	49.23	98	24.46	38	48.01	97	11.224	126	34.07	25	53.01	58	59.44	65
Dez.	6	15.852	112	48.25	125	24.08	32	47.04	146	11.098	100	34.32	10	52.43	55	58.79	124
	16	15.740	85	47.00	148	23.76	26	45.58	190	10.998	72	34.42	5	51.88	49	57.55	178
	26	15.655	56	45.52	168	23.50	18	43.68	228	10.926	40	34.37	18	51.39	41	55.77	228
	36	15.599		43.84		23.32		41.40		10.886		34.19		50.98		53.49	
Mittl. Ort		13.108		17.64		20.44		54.25		7.855		51.72		52.10		17.78	
sec δ, tg δ		1.061		+0.355		2.425		−2.209		1.084		−0.418		2.965		+2.791	
a, *a′*		+2.8		+15.3		+5.0		+15.4		+3.4		+15.5		+0.8		+15.8	
b, *b′*		+0.02		+ 0.65		−0.11		+ 0.64		−0.02		+ 0.63		+0.15		+ 0.62	

Tag	808) β Aquarii				811) 74 Cygni				810) ν Octantis				815) ε Pegasi			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$21^h\ 28^m$		$-5°\ 50'$		$21^h\ 34^m$		$+40°\ 7'$		$21^h\ 34^m$		$-77°\ 39'$		$21^h\ 41^m$		$+9°\ 35'$	
Jan. 1	17.762	21	36.70	57	27.419	94	79.01	226	35.81	39	68.81	286	8.463	40	32.15	126
11	17.741	8	37.27	52	27.325	55	76.75	249	35.42	23	65.95	316	8.423	12	30.89	130
21	17.749	38	37.79	43	27.270	13	74.26	261	35.19	6	62.79	337	8.411	17	29.59	128
31	17.787	68	38.22	30	27.257	30	71.65	264	35.13	11	59.42	350	8.428	48	28.31	119
Febr. 10	17.855	98	38.52	15	27.287	75	69.01	255	35.24	27	55.92	354	8.476	79	27.12	105
20	17.953	129	38.67	5	27.362	122	66.46	236	35.51	42	52.38	350	8.555	111	26.07	85
März 2	18.082	159	38.62	27	27.484	167	64.10	207	35.93	57	48.88	338	8.666	143	25.22	59
12	18.241	188	38.35	51	27.651	211	62.03	168	36.50	70	45.50	318	8.809	175	24.63	29
22	18.429	216	37.84	75	27.862	252	60.35	123	37.20	82	42.32	293	8.984	206	24.34	5
Apr. 1	18.645	242	37.09	99	28.114	288	59.12	72	38.02	93	39.39	262	9.190	234	24.39	40
11	18.887	265	36.10	122	28.402	318	58.40	18	38.95	101	36.77	224	9.424	260	24.79	75
21	19.152	284	34.88	142	28.720	341	58.22	36	39.96	107	34.53	184	9.684	280	25.54	109
Mai 1	19.436	297	33.46	158	29.061	355	58.58	90	41.03	112	32.69	138	9.964	295	26.63	141
11	19.733	305	31.88	170	29.416	362	59.48	141	42.15	114	31.31	90	10.259	304	28.04	167
21	20.038	306	30.18	178	29.778	358	60.89	186	43.29	114	30.41	41	10.563	306	29.71	189
31	20.344	298	28.40	180	30.136	344	62.75	227	44.43	110	30.00	11	10.869	300	31.60	207
Juni 10	20.642	284	26.60	176	30.480	323	65.02	261	45.53	105	30.11	60	11.169	286	33.67	217
20	20.926	262	24.84	169	30.803	292	67.63	288	46.58	96	30.71	108	11.455	264	35.84	223
30	21.188	233	23.15	157	31.095	253	70.51	307	47.54	85	31.79	154	11.719	237	38.07	222
Juli 10	21.421	199	21.58	142	31.348	209	73.58	319	48.39	71	33.33	194	11.956	202	40.29	217
20	21.620	159	20.16	124	31.557	161	76.77	323	49.10	56	35.27	229	12.158	164	42.46	205
30	21.779	116	18.92	104	31.718	108	80.00	321	49.66	38	37.56	255	12.322	121	44.51	191
Aug. 9	21.895	71	17.88	83	31.826	55	83.21	310	50.04	20	40.11	274	12.443	77	46.42	173
18	[14] 21.966	27	17.05	61	[15] 31.881	2	86.31	295	[15] 50.24	0	42.85	283	[17] 12.520	33	48.15	152
28	21.993	16	16.44	41	31.883	48	89.26	273	50.24	18	45.68	281	12.553	9	49.67	129
Sept. 7	21.977	55	16.03	21	31.835	94	91.99	246	50.06	37	48.49	269	12.544	48	50.96	106
17	21.922	89	15.82	4	31.741	134	94.45	215	49.69	54	51.18	246	12.496	82	52.02	81
27	21.833	115	15.78	12	31.607	168	96.60	179	49.15	68	53.64	214	12.414	109	52.83	56
Okt. 7	21.718	136	15.90	25	31.439	193	98.39	139	48.47	80	55.78	172	12.305	131	53.39	32
17	21.582	146	16.15	36	31.246	211	99.78	96	47.67	88	57.50	122	12.174	144	53.71	8
27	21.436	150	16.51	45	31.035	219	100.74	52	46.79	93	58.72	67	12.030	149	53.79	16
Nov. 6	21.286	145	16.96	52	30.816	220	101.26	4	45.86	94	59.39	9	11.881	147	53.63	38
16	21.141	134	17.48	58	30.596	212	101.30	43	44.92	92	59.48	51	11.734	139	53.25	60
26	21.007	116	18.06	61	30.384	198	100.87	89	44.00	85	58.97	111	11.595	125	52.65	79
Dez. 6	20.891	95	18.67	64	30.186	177	99.98	134	43.15	75	57.86	166	11.470	106	51.86	97
16	20.796	69	19.31	64	30.009	150	98.64	175	42.40	63	56.20	216	11.364	85	50.89	113
26	20.727	42	19.95	63	29.859	119	96.89	209	41.77	49	54.04	260	11.279	60	49.76	123
36	20.685		20.58		29.740		94.80		41.28		51.44		11.219		48.53	
Mittl. Ort	17.777		41.66		27.721		63.16		39.34		62.51		8.436		23.33	
sec δ, tg δ	1.005		−0.102		1.308		+0.843		4.682		−4.574		1.014		+0.169	
a, *a′*	+3.2		+15.8		+2.4		+16.1		+6.7		+16.1		+2.9		+16.5	
b, *b′*	−0.01		+0.61		+0.05		+0.59		−0.25		+0.59		+0.01		+0.57	

Tag	819) δ Capricorni [1]) AR.		Dekl.		821) π² Cygni AR.		Dekl.		822) γ Gruis AR.		Dekl.		823) 16 Pegasi AR.		Dekl.	
1938	21h 43m		−16° 24′		21h 44m		+49° 1′		21h 50m		−37° 38′		21h 50m		+25° 37′	
	s		″		s		″		s		″		s		″	
Jan. 1	37.275	32	32.25	4	29.624	141	37.07	232	10.627	58	89.44	102	14.370	68	70.66	178
11	37.243	3	32.29	8	29.483	97	34.75	261	10.569	22	88.42	127	14.302	39	68.88	194
21	37.240	28	32.21	22	29.386	49	32.14	280	10.547	16	87.15	148	14.263	7	66.94	202
31	37.268	58	31.99	38	29.337	3	29.34	288	10.563	53	85.67	168	14.256	27	64.92	200
Febr. 10	37.326	89	31.61	55	29.340	58	26.46	285	10.616	92	83.99	184	14.283	63	62.92	191
20	37.415	120	31.06	72	29.398	114	23.61	269	10.708	130	82.15	197	14.346	100	61.01	172
März 2	37.535	152	30.34	90	29.512	170	20.92	242	10.838	168	80.18	207	14.446	138	59.29	144
12	37.687	183	29.44	108	29.682	223	18.50	205	11.006	205	78.11	213	14.584	175	57.85	111
22	37.870	212	28.36	125	29.905	273	16.45	160	11.211	240	75.98	217	14.759	210	56.74	71
Apr. 1	38.082	240	27.11	141	30.178	317	14.85	109	11.451	274	73.81	215	14.969	244	56.03	28
11	38.322	267	25.70	155	30.495	353	13.76	53	11.725	304	71.66	210	15.213	272	55.75	18
21	38.589	288	24.15	164	30.848	381	13.23	4	12.029	330	69.56	200	15.485	295	55.93	63
Mai 1	38.877	304	22.51	170	31.229	400	13.27	62	12.359	350	67.56	186	15.780	313	56.56	108
11	39.181	314	20.81	173	31.629	407	13.89	118	12.709	364	65.70	167	16.093	322	57.64	148
21	39.495	317	19.08	169	32.036	403	15.07	169	13.073	369	64.03	143	16.415	324	59.12	185
31	39.812	313	17.39	161	32.439	390	16.76	215	13.442	366	62.60	117	16.739	317	60.97	216
Juni 10	40.125	301	15.78	149	32.829	364	18.91	255	13.808	353	61.43	87	17.056	302	63.13	241
20	40.426	280	14.29	133	33.193	329	21.46	289	14.161	332	60.56	55	17.358	280	65.54	259
30	40.706	253	12.96	113	33.522	287	24.35	314	14.493	301	60.01	21	17.638	249	68.13	271
Juli 10	40.959	219	11.83	92	33.809	237	27.49	331	14.794	263	59.80	11	17.887	213	70.84	276
20	41.178	180	10.91	69	34.046	183	30.80	342	15.057	217	59.91	43	18.100	172	73.60	274
30	41.358	136	10.22	44	34.229	123	34.22	344	15.274	166	60.34	74	18.272	127	76.34	267
Aug. 9	41.494	90	9.78	21	34.352	64	37.66	339	15.440	113	61.08	99	18.399	81	79.01	255
18*)	18 41.584	44	9.57	1	18 34.416	4	41.05	327	19 15.553	57	62.07	120	19 18.480	34	81.56	237
28	41.628	2	9.58	21	34.420	53	44.32	308	15.610	1	63.27	136	18.514	10	83.93	215
Sept. 7	41.626	43	9.79	37	34.367	106	47.40	283	15.611	50	64.63	146	18.504	52	86.08	190
17	41.583	80	10.16	51	34.261	153	50.23	253	15.561	96	66.09	148	18.452	88	87.98	161
27	41.503	110	10.67	60	34.108	192	52.76	216	15.465	135	67.57	144	18.364	119	89.59	130
Okt. 7	41.393	132	11.27	65	33.916	225	54.92	176	15.330	166	69.01	132	18.245	142	90.89	98
17	41.261	147	11.92	67	33.691	248	56.68	132	15.164	186	70.33	116	18.103	159	91.87	63
27	41.114	152	12.59	65	33.443	262	58.00	83	14.978	197	71.49	93	17.944	166	92.50	27
Nov. 6	40.962	150	13.24	61	33.181	266	58.83	33	14.781	196	72.42	67	17.778	168	92.77	8
16	40.812	141	13.85	54	32.915	263	59.16	20	14.585	187	73.09	38	17.610	163	92.69	45
26	40.671	124	14.39	46	32.652	251	58.96	71	14.398	170	73.47	7	17.447	151	92.24	80
Dez. 6	40.547	104	14.85	37	32.401	230	58.25	123	14.228	146	73.54	24	17.296	135	91.44	113
16	40.443	80	15.22	26	32.171	203	57.02	170	14.082	116	73.30	54	17.161	113	90.31	143
26	40.363	53	15.48	15	31.968	168	55.32	211	13.966	83	72.76	83	17.048	89	88.88	169
36	40.310		15.63		31.800		53.21		13.883		71.93		16.959		87.19	
Mittl. Ort	37.271		34.49		30.053		19.02		10.805		86.86		14.380		57.61	
sec δ, tg δ	1.042		−0.294		1.525		+1.151		1.263		−0.772		1.109		+0.480	
a, *a′*	+3.3		+16.6		+2.2		+16.6		+3.6		+16.9		+2.7		+16.9	
b, *b′*	−0.02		+ 0.56		+0.06		+ 0.56		−0.04		+ 0.54		+0.03		+ 0.54	

[1]) Die jährliche Parallaxe (0″.114) ist bereits berücksichtigt.

*) Bei Stern 822) und 823) lies Aug. 19.

Tag	827) α Aquarii AR.		827) α Aquarii Dekl.		828) ι Aquarii AR.		828) ι Aquarii Dekl.		830) 20 Cephei AR.		830) 20 Cephei Dekl.		829) α Gruis AR.		829) α Gruis Dekl.	
1938	22^h 2^m		−0° 36′		22^h 3^m		−14° 9′		22^h 3^m		+62° 28′		22^h 4^m		−47° 15′	
Jan. 1	36.136 s	49	72.48 "	78	5.549 s	48	73.97 "	17	6.59 s	27	78.95 "	220	19.753 s	99	49.86 "	141
11	36.087	24	73.26	74	5.501	22	74.14	5	6.32	21	76.75	259	19.654	56	48.45	171
21	36.063	3	74.00	68	5.479	6	74.19	10	6.11	15	74.16	289	19.598	13	46.74	198
31	36.066	32	74.68	56	5.485	35	74.09	26	5.96	8	71.27	307	19.585	31	44.76	220
Febr. 10	36.098	61	75.24	41	5.520	65	73.83	43	5.88	1	68.20	312	19.616	77	42.56	238
20	36.159	92	75.65	22	5.585	97	73.40	62	5.89	10	65.08	305	19.693	123	40.18	250
März 2	36.251	124	75.87	1	5.682	128	72.78	81	5.99	17	62.03	286	19.816	167	37.68	257
12	36.375	156	75.86	26	5.810	161	71.97	101	6.16	26	59.17	254	19.983	211	35.11	261
22	36.531	187	75.60	54	5.971	193	70.96	121	6.42	34	56.63	214	20.194	254	32.50	259
Apr. 1	36.718	218	75.06	81	6.164	223	69.75	139	6.76	40	54.49	164	20.448	294	29.91	251
11	36.936	245	74.25	109	6.387	250	68.36	155	7.16	45	52.85	109	20.742	331	27.40	239
21	37.181	269	73.16	133	6.637	275	66.81	167	7.61	50	51.76	50	21.073	363	25.01	222
Mai 1	37.450	288	71.83	156	6.912	295	65.14	177	8.11	53	51.26	11	21.436	388	22.79	199
11	37.738	301	70.27	173	7.207	308	63.37	180	8.64	54	51.37	71	21.824	406	20.80	172
21	38.039	306	68.54	186	7.515	315	61.57	180	9.18	54	52.08	128	22.230	415	19.08	142
31	38.345	304	66.68	194	7.830	314	59.77	175	9.72	52	53.36	182	22.645	414	17.66	106
Juni 10	38.649	295	64.74	196	8.144	305	58.02	165	10.24	49	55.18	230	23.059	403	16.60	69
20	38.944	277	62.78	194	8.449	287	56.37	151	10.73	45	57.48	271	23.462	382	15.91	31
30	39.221	253	60.84	186	8.736	263	54.86	132	11.18	39	60.19	306	23.844	350	15.60	9
Juli 10	39.474	222	58.98	174	8.999	232	53.54	112	11.57	33	63.25	333	24.194	308	15.69	48
20	39.696	185	57.24	158	9.231	195	52.42	88	11.90	25	66.58	352	24.502	259	16.17	85
30	39.881	145	55.66	139	9.426	153	51.54	63	12.15	17	70.10	363	24.761	203	17.02	117
Aug. 9	40.026	102	54.27	119	9.579	108	50.91	39	12.32	10	73.73	366	24.964	141	18.19	147
19	23 40.128	58	53.08	96	23 9.687	63	50.52	16	23 12.42	1	77.39	362	23 25.105	78	19.66	169
28	40.186	15	52.12	74	9.750	19	50.36	6	12.43	6	81.01	350	25.183	15	21.35	185
Sept. 7	40.201	24	51.38	52	9.769	24	50.42	25	12.37	13	84.51	331	25.198	46	23.20	192
17	40.177	60	50.86	31	9.745	61	50.67	42	12.24	20	87.82	304	25.152	103	25.12	193
27	40.117	90	50.55	11	9.684	93	51.09	53	12.04	27	90.86	273	25.049	151	27.05	184
Okt. 7	40.027	112	50.44	7	9.591	118	51.62	62	11.77	31	93.59	233	24.898	190	28.89	167
17	39.915	129	50.51	23	9.473	134	52.24	66	11.46	35	95.92	188	24.708	218	30.56	143
27	39.786	138	50.74	37	9.339	144	52.90	67	11.11	39	97.80	139	24.490	235	31.99	114
Nov. 6	39.648	139	51.11	49	9.195	145	53.57	66	10.72	40	99.19	86	24.255	240	33.13	78
16	39.509	133	51.60	59	9.050	139	54.23	62	10.32	40	100.05	29	24.015	234	33.91	40
26	39.376	123	52.19	68	8.911	127	54.85	55	9.92	40	100.34	28	23.781	217	34.31	1
Dez. 6	39.253	108	52.87	74	8.784	111	55.40	47	9.52	38	100.06	87	23.564	193	34.30	41
16	39.145	88	53.61	79	8.673	91	55.87	37	9.14	36	99.19	143	23.371	163	33.89	80
26	39.057	67	54.40	81	8.582	67	56.24	27	8.78	31	97.76	193	23.208	125	33.09	117
36	38.990		55.21		8.515		56.51		8.47		95.83		23.083		31.92	
Mittl. Ort	36.002		78.64		5.451		76.46		7.36		57.73		20.070		44.96	
sec δ, tg δ	1.000		−0.011		1.031		−0.252		2.165		+1.920		1.474		−1.082	
a, *a′*	+3.1		+17.5		+3.2		+17.5		+1.8		+17.5		+3.8		+17.5	
b, *b′*	0.00		+ 0.49		−0.01		+ 0.49		+0.11		+ 0.49		−0.06		+ 0.48	

Tag	834) ϑ Pegasi AR.	Δ	834) ϑ Pegasi Dekl.	Δ	835) π Pegasi AR.	Δ	835) π Pegasi Dekl.	Δ	837) 24 Cephei AR.	Δ	837) 24 Cephei Dekl.	Δ	836) ζ Cephei AR.	Δ	836) ζ Cephei Dekl.	Δ
1938	$22^h\ 7^m$		$+5°\ 53'$		$22^h\ 7^m$		$+32°\ 52'$		$22^h\ 8^m$		$+72°\ 2'$		$22^h\ 8^m$		$+57°\ 53'$	
	s		"		s		"		s		"		s		"	
Jan. 1	4.498	55	39.47	104	13.931	97	39.26	186	35.67	48	30.71	209	41.533	229	63.06	214
11	4.443	31	38.43	105	13.834	68	37.40	209	35.19	39	28.62	252	41.304	180	60.92	252
21	4.412	4	37.38	102	13.766	35	35.31	222	34.80	28	26.10	287	41.124	124	58.40	281
31	4.408	25	36.36	93	13.731	1	33.09	227	34.52	17	23.23	311	41.000	60	55.59	298
Febr. 10	4.433	55	35.43	80	13.732	41	30.82	221	34.35	4	20.12	322	40.940	9	52.61	303
20	4.488	86	34.63	61	13.773	81	28.61	207	34.31	8	16.90	320	40.949	81	49.58	296
März 2	4.574	119	34.02	37	13.854	123	26.54	182	34.39	22	13.70	304	41.030	152	46.62	276
12	4.693	152	33.65	9	13.977	165	24.72	150	34.61	35	10.66	276	41.182	223	43.86	245
22	4.845	184	33.56	21	14.142	206	23.22	110	34.96	46	7.90	239	41.405	290	41.41	205
Apr. 1	5.029	215	33.77	52	14.348	243	22.12	66	35.42	56	5.51	192	41.695	350	39.36	156
11	5.244	244	34.29	85	14.591	277	21.46	18	35.98	64	3.59	137	42.045	400	37.80	103
21	5.488	269	35.14	115	14.868	304	21.28	31	36.62	71	2.22	79	42.445	440	36.77	44
Mai 1	5.757	288	36.29	142	15.172	326	21.59	80	37.33	75	1.43	18	42.885	468	36.33	15
11	6.045	301	37.71	167	15.498	338	22.39	126	38.08	77	1.25	43	43.353	482	36.48	74
21	6.346	307	39.38	186	15.836	342	23.65	168	38.85	76	1.68	103	43.835	484	37.22	130
31	6.653	306	41.24	200	16.178	338	25.33	206	39.61	74	2.71	159	44.319	471	38.52	182
Juni 10	6.959	296	43.24	209	16.516	324	27.39	237	40.35	69	4.30	210	44.790	446	40.34	229
20	7.255	279	45.33	212	16.840	301	29.76	263	41.04	62	6.40	256	45.236	409	42.63	269
30	7.534	254	47.45	210	17.141	272	32.39	281	41.66	54	8.96	294	45.645	361	45.32	302
Juli 10	7.788	223	49.55	203	17.413	235	35.20	292	42.20	45	11.90	326	46.006	305	48.34	328
20	8.011	188	51.58	190	17.648	193	38.12	296	42.65	35	15.16	350	46.311	243	51.62	347
30	8.199	147	53.48	175	17.841	147	41.08	295	43.00	24	18.66	366	46.554	175	55.09	356
Aug. 9	8.346	104	55.23	155	17.988	98	44.03	286	43.24	12	22.32	374	46.729	105	58.65	359
19	8.450	61	56.78	135	18.086	50	46.89	272	43.36	1	26.06	374	46.834	34	62.24	354
28	^{24}8.511	19	58.13	113	^{24}18.136	3	49.61	253	^{24}43.37	11	29.80	366	^{24}46.868	34	65.78	342
Sept. 7	8.530	22	59.26	89	18.139	41	52.14	230	43.26	22	33.46	350	46.834	99	69.20	322
17	8.508	57	60.15	66	18.098	81	54.44	201	43.04	31	36.96	328	46.735	159	72.42	296
27	8.451	87	60.81	43	18.017	115	56.45	170	42.73	40	40.24	298	46.576	211	75.38	263
Okt. 7	8.364	110	61.24	21	17.902	142	58.15	136	42.33	48	43.22	261	46.365	256	78.01	226
17	8.254	127	61.45	0	17.760	162	59.51	99	41.85	55	45.83	218	46.109	291	80.27	182
27	8.127	136	61.45	19	17.598	175	60.50	60	41.30	60	48.01	169	45.818	317	82.09	134
Nov. 6	7.991	138	61.26	37	17.423	181	61.10	19	40.70	63	49.70	115	45.501	332	83.43	81
16	7.853	135	60.89	55	17.242	179	61.29	23	40.07	65	50.85	58	45.169	338	84.24	27
26	7.718	125	60.34	71	17.063	171	61.06	63	39.42	65	51.43	3	44.831	334	84.51	30
Dez. 6	7.593	111	59.63	84	16.892	159	60.43	103	38.77	63	51.40	64	44.497	318	84.21	86
16	7.482	93	58.79	94	16.733	140	59.40	140	38.14	59	50.76	123	44.179	294	83.35	139
26	7.389	73	57.85	103	16.593	117	58.00	172	37.55	53	49.53	179	43.885	259	81.96	189
36	7.316		56.82		16.476		56.28		37.02		47.74		43.626		80.07	
Mittl. Ort	4.340		31.49		13.895		23.96		37.17		7.97		42.001		42.34	
sec δ, tg δ	1.005		+0.103		1.191		+0.646		3.242		+3.084		1.882		+1.594	
a, *a'*	+3.0		+17.7		+2.7		+17.7		+1.1		+17.7		+2.1		+17.7	
b, *b'*	+0.01		+ 0.47		+0.04		+ 0.47		+0.18		+ 0.47		+0.09		+0.47	

Tag	840) ϑ Aquarii AR.		840) ϑ Aquarii Dekl.		841) α Tucanae AR.		841) α Tucanae Dekl.		842) γ Aquarii AR.		842) γ Aquarii Dekl.		844) 3 Lacertae AR.		844) 3 Lacertae Dekl.	
1938	$22^h\ 13^m$		$-8°\ 5'$		$22^h\ 14^m$		$-60°\ 33'$		$22^h\ 18^m$		$-1°\ 41'$		$22^h\ 21^m$		$+51°\ 54'$	
	s		"		s		"		s		"		s		"	
Jan. 1	33.978	55	29.87	45	15.50	19	78.05	193	27.472	59	56.12	71	6.948	192	84.17	201
11	33.923	31	30.32	36	15.31	13	76.12	229	27.413	36	56.83	68	6.756	153	82.16	237
21	33.892	4	30.68	25	15.18	6	73.83	260	27.377	11	57.51	59	6.603	107	79.79	264
31	33.888	23	30.93	10	15.12	0	71.23	283	27.366	17	58.10	48	6.496	56	77.15	281
Febr. 10	33.911	53	31.03	6	15.12	6	68.40	301	27.383	46	58.58	32	6.440	0	74.34	286
20	33.964	83	30.97	26	15.18	12	65.39	312	27.429	76	58.90	13	6.440	60	71.48	280
März 2	34.047	115	30.71	47	15.30	19	62.27	315	27.505	109	59.03	9	6.500	122	68.68	262
12	34.162	148	30.24	70	15.49	26	59.12	312	27.614	141	58.94	33	6.622	183	66.06	232
22	34.310	180	29.54	93	15.75	31	56.00	303	27.755	174	58.61	60	6.805	241	63.74	194
Apr. 1	34.490	211	28.61	115	16.06	37	52.97	288	27.929	206	58.01	87	7.046	296	61.80	149
11	34.701	241	27.46	136	16.43	41	50.09	267	28.135	236	57.14	113	7.342	342	60.31	96
21	34.942	265	26.10	155	16.84	46	47.42	239	28.371	261	56.01	137	7.684	381	59.35	40
Mai 1	35.207	287	24.55	169	17.30	50	45.03	208	28.632	283	54.64	158	8.065	410	58.95	16
11	35.494	302	22.86	181	17.80	52	42.95	171	28.915	298	53.06	175	8.475	427	59.11	73
21	35.796	309	21.05	186	18.32	54	41.24	130	29.213	307	51.31	187	8.902	433	59.84	127
31	36.105	310	19.19	187	18.86	54	39.94	86	29.520	307	49.44	194	9.335	426	61.11	176
Juni 10	36.415	302	17.32	183	19.40	52	39.08	41	29.827	300	47.50	197	9.761	408	62.87	222
20	36.717	286	15.49	174	19.92	50	38.67	6	30.127	286	45.53	192	10.169	380	65.09	260
30	37.003	264	13.75	160	20.42	46	38.73	52	30.413	262	43.61	185	10.549	342	67.69	292
Juli 10	37.267	234	12.15	142	20.88	41	39.25	97	30.675	234	41.76	172	10.891	295	70.61	317
20	37.501	199	10.73	123	21.29	34	40.22	137	30.909	199	40.04	155	11.186	242	73.78	334
30	37.700	158	9.50	101	21.63	27	41.59	174	31.108	159	38.49	136	11.428	184	77.12	343
Aug. 9	37.858	116	8.49	77	21.90	19	43.33	203	31.267	118	37.13	115	11.612	123	80.55	345
19	37.974	71	7.72	53	22.09	10	45.36	226	31.385	74	35.98	92	11.735	61	84.00	340
28	[25] 38.045	28	7.19	30	[26] 22.19	2	47.62	240	[27] 31.459	31	35.06	69	[27] 11.796	1	87.40	328
Sept. 7	38.073	13	6.89	9	22.21	6	50.02	245	31.490	9	34.37	46	11.797	56	90.68	309
17	38.060	50	6.80	9	22.15	14	52.47	240	31.481	45	33.91	26	11.741	110	93.77	284
27	38.010	82	6.89	26	22.01	22	54.87	225	31.436	77	33.65	6	11.631	156	96.61	253
Okt. 7	37.928	107	7.15	40	21.79	27	57.12	201	31.359	101	33.59	12	11.475	195	99.14	217
17	37.821	124	7.55	49	21.52	31	59.13	168	31.258	119	33.71	27	11.280	228	101.31	175
27	37.697	135	8.04	56	21.21	35	60.81	128	31.139	131	33.98	40	11.052	251	103.06	130
Nov. 6	37.562	137	8.60	61	20.86	36	62.09	81	31.008	134	34.38	51	10.801	267	104.36	80
16	37.425	134	9.21	63	20.50	36	62.90	33	30.874	132	34.89	60	10.534	273	105.16	28
26	37.291	125	9.84	63	20.14	34	63.23	19	30.742	124	35.49	67	10.261	271	105.44	25
Dez. 6	37.166	111	10.47	62	19.80	31	63.04	69	30.618	111	36.16	72	9.990	261	105.19	78
16	37.055	93	11.09	57	19.49	27	62.35	119	30.507	95	36.88	74	9.729	242	104.41	130
26	36.962	73	11.66	52	19.22	23	61.16	164	30.412	76	37.62	75	9.487	215	103.11	176
36	36.889		12.18		18.99		59.52		30.336		38.37		9.272		101.35	
Mittl. Ort	33.810		33.86		16.27		70.73		27.265		61.89		7.086		64.10	
sec δ, tg δ	1.010		−0.142		2.035		−1.773		1.000		−0.030		1.621		+1.276	
a, *a′*	+3.2		+17.9		+4.1		+17.9		+3.1		+18.1		+2.4		+18.2	
b, *b′*	−0.01		+ 0.45		−0.11		+ 0.45		0.00		+ 0.43		+0.08		+ 0.42	

Scheinbare Sternörter 1938

Tag	848) 7 Lacertae AR.		848) 7 Lacertae Dekl.		850) η Aquarii AR.		850) η Aquarii Dekl.		852) 10 Lacertae AR.		852) 10 Lacertae Dekl.		855) ζ Pegasi AR.		855) ζ Pegasi Dekl.	
1938	$22^h\ 28^m$		$+49°\ 57'$		$22^h\ 32^m$		$-0°\ 25'$		$22^h\ 36^m$		$+38°\ 43'$		$22^h\ 38^m$		$+10°\ 30'$	
	s		"		s		"		s		"		s		"	
Jan. 1	43.982	184	67.39	192	10.531	69	69.73	75	28.764	136	54.80	174	22.463	79	34.93	111
11	43.798	149	65.47	227	10.462	47	70.48	72	28.628	108	53.06	203	22.384	58	33.82	116
21	43.649	107	63.20	255	10.415	23	71.20	64	28.520	77	51.03	225	22.326	34	32.66	117
31	43.542	60	60.65	273	10.392	3	71.84	53	28.443	40	48.78	236	22.292	8	31.49	112
Febr. 10	43.482	6	57.92	278	10.395	31	72.37	39	28.403	0	46.42	239	22.284	21	30.37	102
20	43.476	50	55.14	273	10.426	62	72.76	20	28.403	45	44.03	230	22.305	53	29.35	86
März 2	43.526	108	52.41	255	10.488	94	72.96	2	28.448	92	41.73	212	22.358	86	28.49	63
12	43.634	168	49.86	228	10.582	128	72.94	27	28.540	139	39.61	185	22.444	122	27.86	37
22	43.802	225	47.58	191	10.710	162	72.67	54	28.679	186	37.76	149	22.566	158	27.49	7
Apr. 1	44.027	278	45.67	146	10.872	195	72.13	81	28.865	231	36.27	107	22.724	192	27.42	27
11	44.305	324	44.21	96	11.067	226	71.32	107	29.096	272	35.20	60	22.916	226	27.69	60
21	44.629	364	43.25	41	11.293	254	70.25	133	29.368	306	34.60	10	23.142	254	28.29	93
Mai 1	44.993	393	42.84	14	11.547	278	68.92	155	29.674	335	34.50	41	23.396	279	29.22	125
11	45.386	413	42.98	70	11.825	295	67.37	173	30.009	353	34.91	90	23.675	298	30.47	154
21	45.799	420	43.68	123	12.120	305	65.64	187	30.362	363	35.81	137	23.973	308	32.01	177
31	46.219	416	44.91	172	12.425	308	63.77	196	30.725	364	37.18	179	24.281	311	33.78	197
Juni 10	46.635	402	46.63	217	12.733	304	61.81	200	31.089	354	38.97	217	24.592	307	35.75	212
20	47.037	376	48.80	255	13.037	290	59.81	198	31.443	335	41.14	249	24.899	293	37.87	219
30	47.413	341	51.35	286	13.327	270	57.83	190	31.778	307	43.63	274	25.192	273	40.06	223
Juli 10	47.754	297	54.21	311	13.597	242	55.93	179	32.085	273	46.37	293	25.465	246	42.29	219
20	48.051	247	57.32	328	13.839	209	54.14	163	32.358	231	49.30	304	25.711	212	44.48	212
30	48.298	193	60.60	338	14.048	171	52.51	145	32.589	186	52.34	308	25.923	174	46.60	199
Aug. 9	48.491	134	63.98	340	14.219	130	51.06	123	32.775	136	55.42	306	26.097	133	48.59	183
19	48.625	75	67.38	336	14.349	87	49.83	100	32.911	86	58.48	298	26.230	90	50.42	163
29	48.700	17	70.74	324	14.436	44	48.83	78	32.997	36	61.46	283	26.320	48	52.05	143
Sept. 7	[29] 48.717	39	73.98	306	[30] 14.480	4	48.05	55	[31] 33.033	11	64.29	264	[1] 26.368	8	53.48	119
17	48.678	90	77.04	281	14.484	33	47.50	32	33.022	55	66.93	240	26.376	29	54.67	94
27	48.588	136	79.85	252	14.451	64	47.18	12	32.967	94	69.33	210	26.347	61	55.61	71
Okt. 7	48.452	175	82.37	216	14.387	91	47.06	6	32.873	126	71.43	177	26.286	88	56.32	47
17	48.277	207	84.53	176	14.296	111	47.12	23	32.747	153	73.20	140	26.198	108	56.79	23
27	48.070	230	86.29	131	14.185	123	47.35	38	32.594	172	74.60	101	26.090	123	57.02	1
Nov. 6	47.840	246	87.60	84	14.062	130	47.73	49	32.422	184	75.61	59	25.967	130	57.03	22
16	47.594	254	88.44	33	13.932	129	48.22	59	32.238	190	76.20	14	25.837	132	56.81	43
26	47.340	253	88.77	19	13.803	124	48.81	67	32.048	190	76.34	30	25.705	128	56.38	62
Dez. 6	47.087	246	88.58	71	13.679	115	49.48	73	31.858	183	76.04	74	25.577	120	55.76	79
16	46.841	230	87.87	120	13.564	100	50.21	76	31.675	171	75.30	117	25.457	109	54.97	95
26	46.611	206	86.67	169	13.464	84	50.97	78	31.504	153	74.13	155	25.348	93	54.02	107
36	46.405		84.98		13.380		51.75		31.351		72.58		25.255		52.95	
Mittl. Ort	43.999		47.48		10.254		75.77		28.558		37.34		22.141		25.56	
sec δ, tg δ	1.555		+1.190		1.000		−0.008		1.282		+0.802		1.017		+0.185	
a, *a'*	+2.5		+18.5		+3.1		+18.6		+2.7		+18.7		+3.0		+18.8	
b, *b'*	+0.07		+ 0.39		0.00		+ 0.37		+0.05		+ 0.36		+0.01		+ 0.35	

Tag	856) β Gruis AR.		856) β Gruis Dekl.		857) η Pegasi AR.		857) η Pegasi Dekl.	
1938	22h 38m		−47° 12′		22h 40m		+29° 53′	
Jan. 1	58.182	138	41.49	117	5.875	110	61.94	158
11	58.044	102	40.32	154	5.765	88	60.36	180
21	57.942	63	38.78	187	5.677	60	58.56	195
31	57.879	22	36.91	214	5.617	29	56.61	192
Febr. 10	57.857	22	34.77	237	5.588	6	54.69	211
20	57.879	66	32.40	255	5.594	45	52.58	190
März 2	57.945	112	29.85	269	5.639	85	50.68	171
12	58.057	158	27.16	276	5.724	127	48.97	143
22	58.215	205	24.40	279	5.851	170	47.54	109
Apr. 1	58.420	250	21.61	276	6.021	210	46.45	69
11	58.670	292	18.85	267	6.231	247	45.76	26
21	58.962	330	16.18	253	6.478	280	45.50	20
Mai 1	59.292	363	13.65	233	6.758	307	45.70	65
11	59.655	388	11.32	208	7.065	326	46.35	109
21	60.043	405	9.24	178	7.391	336	47.44	150
31	60.448	413	7.46	143	7.727	338	48.94	186
Juni 10	60.861	410	6.03	106	8.065	332	50.80	217
20	61.271	396	4.97	65	8.397	315	52.97	243
30	61.667	371	4.32	23	8.712	292	55.40	261
Juli 10	62.038	337	4.09	20	9.004	260	58.01	274
20	62.375	294	4.29	60	9.264	223	60.75	279
30	62.669	242	4.89	99	9.487	182	63.54	279
Aug. 9	62.911	185	5.88	134	9.669	137	66.33	273
19	63.096	124	7.22	162	9.806	90	69.06	261
29	63.220	61	8.84	185	9.896	44	71.67	245
Sept. 7	63.281	0	10.69	200	9.940	1	74.12	224
17	63.281	59	12.69	206	9.941	39	76.36	198
27	63.222	111	14.75	204	9.902	75	78.34	171
Okt. 7	63.111	156	16.79	193	9.827	105	80.05	140
17	62.955	191	18.72	173	9.722	129	81.45	107
27	62.764	215	20.45	147	9.593	145	82.52	71
Nov. 6	62.549	230	21.92	114	9.448	156	83.23	34
16	62.319	233	23.06	76	9.292	161	83.57	3
26	62.086	226	23.82	34	9.131	160	83.54	40
Dez. 6	61.860	211	24.16	7	8.971	154	83.14	78
16	61.649	188	24.09	50	8.817	142	82.36	112
26	61.461	161	23.59	92	8.675	126	81.24	143
36	61.300		22.67		8.549		79.81	
Mittl. Ort	58.332		35.11		5.584		46.80	
sec δ, tg δ	1.472		−1.080		1.154		+0.575	
a, *a*′	+3.6		+18.8		+2.8		+18.8	
b, *b*′	−0.07		+ 0.35		+0.04		+ 0.34	

Tag	859) λ Pegasi AR.		859) λ Pegasi Dekl.		860) ε Gruis AR.		860) ε Gruis Dekl.	
1938	22h 43m		+23° 14′		22h 44m		−51° 38′	
Jan. 1	32.884	98	33.08	142	48.861	166	44.27	131
11	32.786	77	31.66	159	48.695	128	42.96	170
21	32.709	53	30.07	169	48.567	85	41.26	205
31	32.656	24	28.38	173	48.482	39	39.21	235
Febr. 10	32.632	8	26.65	168	48.443	8	36.86	258
20	32.640	44	24.97	156	48.451	57	34.28	276
März 2	32.684	81	23.41	136	48.508	107	31.52	290
12	32.765	120	22.05	109	48.615	159	28.62	296
22	32.885	160	20.96	76	48.774	210	25.66	297
Apr. 1	33.045	198	20.20	39	48.984	259	22.69	291
11	33.243	234	19.81	2	49.243	306	19.78	281
21	33.477	266	19.83	44	49.549	347	16.97	263
Mai 1	33.743	292	20.27	84	49.896	384	14.34	241
11	34.035	311	21.11	123	50.280	413	11.93	212
21	34.346	323	22.34	158	50.693	432	9.81	179
31	34.669	326	23.92	190	51.125	441	8.02	141
Juni 10	34.995	320	25.82	216	51.566	440	6.61	100
20	35.315	306	27.98	235	52.006	426	5.61	57
30	35.621	285	30.33	249	52.432	402	5.04	12
Juli 10	35.906	256	32.82	256	52.834	366	4.92	33
20	36.162	221	35.38	258	53.200	321	5.25	76
30	36.383	181	37.96	254	53.521	266	6.01	116
Aug. 9	36.564	138	40.50	245	53.787	205	7.17	152
19	36.702	95	42.95	230	53.992	139	8.69	182
29	36.797	50	45.25	212	54.131	71	10.51	205
Sept. 7	36.847	9	47.37	190	54.202	3	12.56	219
17	36.856	30	49.27	166	54.205	61	14.75	225
27	36.826	64	50.93	138	54.144	119	17.00	222
Okt. 7	36.762	93	52.31	110	54.025	169	19.22	208
17	36.669	115	53.41	80	53.856	210	21.30	187
27	36.554	131	54.21	49	53.646	239	23.17	157
Nov. 6	36.423	142	54.70	16	53.407	257	24.74	121
16	36.281	146	54.86	16	53.150	262	25.95	79
26	36.135	144	54.70	47	52.888	258	26.74	34
Dez. 6	35.991	138	54.23	77	52.630	243	27.08	12
16	35.853	128	53.46	106	52.387	220	26.96	58
26	35.725	112	52.40	131	52.167	190	26.38	103
36	35.613		51.09		51.977		25.35	
Mittl. Ort	32.546		19.83		49.098		36.84	
sec δ, tg δ	1.088		+0.429		1.612		−1.264	
a, *a*′	+2.9		+18.9		+3.6		+19.0	
b, *b*′	+0.03		+ 0.33		−0.08		+ 0.32	

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Tag	863) ι Cephei AR.		863) ι Cephei Dekl.		864) λ Aquarii AR.		864) λ Aquarii Dekl.		865) ρ Indi AR.		865) ρ Indi Dekl.		866) δ Aquarii AR.		866) δ Aquarii Dekl.	
1938	22ʰ 47ᵐ		+65° 52′		22ʰ 49ᵐ		−7° 54′		22ʰ 50ᵐ		−70° 23′		22ʰ 51ᵐ		−16° 8′	
	s		″		s		″		s		″		s		″	
Jan. 1	27.79	38	49.69	169	23.200	79	32.60	47	21.05	41	90.39	197	22.006	83	62.59	17
11	27.41	33	48.00	217	23.121	58	33.07	37	20.64	32	88.42	242	21.923	63	62.76	1
21	27.08	26	45.83	257	23.063	37	33.44	24	20.32	24	86.00	280	21.860	40	62.75	19
31	26.82	18	43.26	286	23.026	12	33.68	9	20.08	15	83.20	311	21.820	14	62.56	39
Febr. 10	26.64	10	40.40	303	23.014	16	33.77	9	19.93	6	80.09	334	21.806	14	62.17	58
20	26.54	0	37.37	309	23.030	45	33.68	28	19.87	4	76.75	349	21.820	45	61.59	79
März 2	26.54	9	34.28	302	23.075	78	33.40	50	19.91	14	73.26	356	21.865	77	60.80	101
12	26.63	19	31.26	283	23.153	112	32.90	72	20.05	23	69.70	355	21.942	112	59.79	121
22	26.82	28	28.43	251	23.265	146	32.18	96	20.28	32	66.15	347	22.054	147	58.58	141
Apr. 1	27.10	37	25.92	211	23.411	181	31.22	119	20.60	42	62.68	331	22.201	183	57.17	159
11	27.47	45	23.81	163	23.592	215	30.03	140	21.02	49	59.37	308	22.384	217	55.58	175
21	27.92	51	22.18	109	23.807	245	28.63	160	21.51	57	56.29	280	22.601	248	53.83	187
Mai 1	28.43	57	21.09	52	24.052	270	27.03	175	22.08	63	53.49	244	22.849	274	51.96	196
11	29.00	59	20.57	8	24.322	291	25.28	187	22.71	68	51.05	204	23.123	296	50.00	200
21	29.59	61	20.65	66	24.613	305	23.41	194	23.39	71	49.01	160	23.419	311	48.00	199
31	30.20	60	21.31	123	24.918	311	21.47	195	24.10	73	47.41	111	23.730	318	46.01	192
Juni 10	30.80	59	22.54	176	25.229	310	19.52	192	24.83	73	46.30	59	24.048	317	44.09	180
20	31.39	55	24.30	223	25.539	299	17.60	184	25.56	71	45.71	7	24.365	307	42.29	165
30	31.94	50	26.53	265	25.838	282	15.76	170	26.27	67	45.64	45	24.672	290	40.64	144
Juli 10	32.44	44	29.18	301	26.120	257	14.06	153	26.94	61	46.09	96	24.962	265	39.20	120
20	32.88	37	32.19	328	26.377	225	12.53	132	27.55	54	47.05	143	25.227	234	38.00	94
30	33.25	29	35.47	349	26.602	188	11.21	109	28.09	44	48.48	186	25.461	196	37.06	67
Aug. 9	33.54	21	38.96	362	26.790	148	10.12	84	28.53	34	50.34	223	25.657	154	36.39	38
19	33.75	13	42.58	367	26.938	106	9.28	59	28.87	22	52.57	252	25.811	111	36.01	10
29	33.88	4	46.25	365	27.044	63	8.69	34	29.09	10	55.09	271	25.922	67	35.91	15
	3				3				4				4			
Sept. 7	33.92	5	49.90	355	27.107	21	8.35	11	29.19	2	57.80	281	25.989	23	36.06	38
17	33.87	13	53.45	337	27.128	17	8.24	10	29.17	14	60.61	280	26.012	17	36.44	57
27	33.74	20	56.82	313	27.111	51	8.34	28	29.03	25	63.41	268	25.995	52	37.01	73
Okt. 7	33.54	26	59.95	281	27.060	78	8.62	44	28.78	35	66.09	244	25.943	82	37.74	83
17	33.28	33	62.76	243	26.982	101	9.06	55	28.43	44	68.53	211	25.861	106	38.57	89
27	32.95	37	65.19	199	26.881	117	9.61	63	27.99	50	70.64	169	25.755	123	39.46	90
Nov. 6	32.58	41	67.18	149	26.764	125	10.24	68	27.49	54	72.33	120	25.632	132	40.36	86
16	32.17	43	68.67	95	26.639	128	10.92	70	26.95	56	73.53	65	25.500	135	41.22	80
26	31.74	45	69.62	37	26.511	126	11.62	69	26.39	57	74.18	7	25.365	132	42.02	71
Dez. 6	31.29	45	69.99	22	26.385	118	12.31	67	25.82	54	74.25	51	25.233	125	42.73	58
16	30.84	44	69.77	81	26.267	107	12.98	61	25.28	50	73.74	109	25.108	113	43.31	45
26	30.40	41	68.96	138	26.160	92	13.59	55	24.78	44	72.65	163	24.995	97	43.76	29
36	29.99		67.58		26.068		14.14		24.34		71.02		24.898		44.05	
Mittl. Ort	28.02		26.30		22.861		36.14		22.34		80.28		21.700		63.58	
sec δ, tg δ	2.447		+2.233		1.010		−0.139		2.982		−2.809		1.041		−0.290	
a, *a′*	+2.1		+19.0		+3.1		+19.1		+4.2		+19.1		+3.2		+19.2	
b, *b′*	+0.14		+ 0.31		−0.01		+ 0.30		−0.18		+ 0.30		−0.02		+ 0.30	

Tag	867) α Pisc. austr. AR.		867) Dekl.		869) ο Andromedae AR.		869) Dekl.		870) β Pegasi AR.		870) Dekl.		871) α Pegasi AR.		871) Dekl.	
1938	$22^h\ 54^m$		$-29°\ 56'$		$22^h\ 59^m$		$+41°\ 59'$		$23^h\ 0^m$		$+27°\ 44'$		$23^h\ 1^m$		$+14°\ 52'$	
	s		"		s		"		s		"		s		"	
Jan. 1	13.894	100	67.49	36	4.220	162	50.74	158	46.388	117	60.53	139	40.697	96	27.17	114
11	13.794	78	67.13	64	4.058	138	49.16	191	46.271	97	59.14	161	40.601	78	26.03	124
21	13.716	51	66.49	91	3.920	108	47.25	217	46.174	73	57.53	177	40.523	57	24.79	129
31	13.665	22	65.58	117	3.812	72	45.08	235	46.101	46	55.76	185	40.466	33	23.50	129
Febr. 10	13.643	9	64.41	141	3.740	32	42.73	243	46.055	13	53.91	185	40.433	4	22.21	121
20	13.652	43	63.00	162	3.708	14	40.30	241	46.042	23	52.06	176	40.429	28	21.00	108
März 2	13.695	79	61.38	181	3.722	64	37.89	227	46.065	62	50.30	159	40.457	62	19.92	89
12	13.774	116	59.57	198	3.786	115	35.62	204	46.127	104	48.71	135	40.519	99	19.03	63
22	13.890	155	57.59	212	3.901	166	33.58	172	46.231	147	47.36	103	40.618	138	18.40	34
Apr. 1	14.045	193	55.47	222	4.067	217	31.86	133	46.378	189	46.33	67	40.756	175	18.06	1
11	14.238	230	53.25	227	4.284	263	30.53	89	46.567	228	45.66	26	40.931	211	18.05	34
21	14.468	264	50.98	229	4.547	303	29.64	40	46.795	263	45.40	16	41.142	245	18.39	69
Mai 1	14.732	293	48.69	225	4.850	336	29.24	11	47.058	293	45.56	60	41.387	272	19.08	104
11	15.025	317	46.44	215	5.186	361	29.35	61	47.351	315	46.16	101	41.659	294	20.12	136
21	15.342	334	44.29	201	5.547	376	29.96	110	47.666	330	47.17	140	41.953	309	21.48	164
31	15.676	343	42.28	182	5.923	381	31.06	155	47.996	336	48.57	176	42.262	316	23.12	188
Juni 10	16.019	342	40.46	158	6.304	375	32.61	196	48.332	333	50.33	206	42.578	314	25.00	207
20	16.361	334	38.88	129	6.679	360	34.57	232	48.665	321	52.39	230	42.892	305	27.07	221
30	16.695	316	37.59	98	7.039	335	36.89	262	48.986	302	54.69	249	43.197	287	29.28	228
Juli 10	17.011	290	36.61	65	7.374	302	39.51	284	49.288	274	57.18	262	43.484	262	31.56	230
20	17.301	257	35.96	29	7.676	263	42.35	300	49.562	240	59.80	267	43.746	231	33.86	226
30	17.558	216	35.67	5	7.939	217	45.35	310	49.802	201	62.47	268	43.977	195	36.12	218
Aug. 9	17.774	171	35.72	38	8.156	168	48.45	312	50.003	159	65.15	262	44.172	155	38.30	204
19	17.945	123	36.10	69	8.324	117	51.57	308	50.162	114	67.77	251	44.327	114	40.34	188
29	18.068	74	36.79	95	8.441	67	54.65	298	50.276	70	70.28	236	44.441	72	42.22	168
	5				6				6				7			
Sept. 7	18.142	26	37.74	116	8.508	18	57.63	282	50.346	27	72.64	216	44.513	31	43.90	146
17	18.168	20	38.90	133	8.526	29	60.45	261	50.373	13	74.80	193	44.544	7	45.36	122
27	18.148	60	40.23	142	8.497	71	63.06	235	50.360	50	76.73	167	44.537	41	46.58	98
Okt. 7	18.088	95	41.65	144	8.426	108	65.41	203	50.310	81	78.40	139	44.496	69	47.56	72
17	17.993	123	43.09	139	8.318	139	67.44	168	50.229	105	79.79	107	44.427	93	48.28	47
27	17.870	143	44.48	129	8.179	163	69.12	130	50.124	126	80.86	74	44.334	110	48.75	22
Nov. 6	17.727	155	45.77	113	8.016	181	70.42	87	49.998	139	81.60	41	44.224	122	48.97	2
16	17.572	159	46.90	92	7.835	192	71.29	43	49.859	147	82.01	6	44.102	128	48.95	27
26	17.413	157	47.82	68	7.643	198	71.72	2	49.712	150	82.07	29	43.974	130	48.68	50
Dez. 6	17.256	148	48.50	41	7.445	197	71.70	49	49.562	148	81.78	64	43.844	126	48.18	72
16	17.108	135	48.91	12	7.248	190	71.21	94	49.414	140	81.14	96	43.718	118	47.46	91
26	16.973	116	49.03	16	7.058	176	70.27	135	49.274	129	80.18	125	43.600	107	46.55	107
36	16.857		48.87		6.882		68.92		49.145		78.93		43.493		45.48	
Mittl. Ort	13.690		64.51		3.843		32.06		45.940		45.82		40.236		16.46	
sec δ, tg δ	1.154		−0.576		1.346		+0.900		1.130		+0.526		1.035		+0.266	
a, *a′*	+3.3		+19.2		+2.8		+19.3		+2.9		+19.4		+3.0		+19.4	
b, *b′*	−0.04		+ 0.28		+0.06		+ 0.26		+0.03		+ 0.26		+0.02		+ 0.25	

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Tag	872) ϑ Gruis AR.	872) ϑ Gruis Dekl.	874) π Cephei AR.	874) π Cephei Dekl.	873) c^2 Aquarii AR.	873) c^2 Aquarii Dekl.	875) Br 3077[1]) AR.	875) Br 3077[1]) Dekl.
1938	$23^h\ 3^m$	$-43°\ 50'$	$23^h\ 5^m$	$+75°\ 3'$	$23^h\ 6^m$	$-21°\ 30'$	$23^h\ 10^m$	$+56°\ 49'$
Jan. 1	23.608ˢ 148	88.16″ 86	54.81ˢ 69	32.82″ 135	8.930ˢ 97	34.49″ 1	17.699ˢ 260	54.79″ 148
11	23.460 120	87.30 123	54.12 62	31.47 189	8.833 78	34.50 22	17.439 229	53.31 194
21	23.340 87	86.07 158	53.50 51	29.58 236	8.755 55	34.28 45	17.210 189	51.37 232
31	23.253 52	84.49 189	52.99 40	27.22 274	8.700 31	33.83 67	17.021 139	49.05 260
Febr. 10	23.201 13	82.60 216	52.59 26	24.48 300	8.669 2	33.16 90	16.882 81	46.45 278
20	23.188 28	80.44 239	52.33 11	21.48 315	8.667 29	32.26 113	16.801 15	43.67 284
März 2	23.216 70	78.05 256	52.22 4	18.33 316	8.696 62	31.13 134	16.786 55	40.83 279
12	23.286 116	75.49 269	52.26 20	15.17 305	8.758 97	29.79 154	16.841 127	38.04 261
22	23.402 162	72.80 276	52.46 36	12.12 281	8.855 135	28.25 172	16.968 199	35.43 234
Apr. 1	23.564 206	70.04 279	52.82 51	9.31 246	8.990 172	26.53 188	17.167 268	33.09 196
11	23.770 250	67.25 275	53.33 63	6.85 203	9.162 208	24.65 201	17.435 331	31.13 151
21	24.020 290	64.50 266	53.96 73	4.82 153	9.370 242	22.64 209	17.766 387	29.62 101
Mai 1	24.310 326	61.84 251	54.69 82	3.29 97	9.612 272	20.55 214	18.153 432	28.61 47
11	24.636 355	59.33 230	55.51 88	2.32 39	9.884 296	18.41 213	18.585 464	28.14 9
21	24.991 377	57.03 204	56.39 91	1.93 21	10.180 313	16.28 207	19.049 484	28.23 64
31	25.368 389	54.99 173	57.30 92	2.14 79	10.493 324	14.21 196	19.533 490	28.87 118
Juni 10	25.757 392	53.26 138	58.22 89	2.93 136	10.817 325	12.25 180	20.023 484	30.05 168
20	26.149 384	51.88 99	59.11 84	4.29 188	11.142 319	10.45 158	20.507 464	31.73 213
30	26.533 366	50.89 57	59.95 78	6.17 234	11.461 304	8.87 134	20.971 433	33.86 253
Juli 10	26.899 338	50.32 15	60.73 70	8.51 276	11.765 280	7.53 106	21.404 392	36.39 286
20	27.237 301	50.17 28	61.43 60	11.27 311	12.045 250	6.47 75	21.796 342	39.25 313
30	27.538 256	50.45 69	62.03 48	14.38 338	12.295 214	5.72 44	22.138 284	42.38 332
Aug. 9	27.794 205	51.14 106	62.51 36	17.76 358	12.509 172	5.28 13	22.422 223	45.70 344
19	27.999 149	52.20 139	62.87 23	21.34 372	12.681 129	5.15 18	22.645 159	49.14 349
29	28.148 91	53.59 167	63.10 10	25.06 376	12.810 83	5.33 46	22.804 93	52.63 346
Sept. 7*)	^{7}28.239 33	55.26 187	63.20 3	28.82 373	12.893 38	5.79 69	22.897 29	56.09 336
17	28.272 23	57.13 199	^{8}63.17 16	32.55 362	^{8}12.931 4	6.48 89	^{9}22.926 32	59.45 320
27	28.249 74	59.12 204	63.01 27	36.17 344	12.927 41	7.37 103	22.894 90	62.65 298
Okt. 7	28.175 118	61.16 199	62.74 38	39.61 318	12.886 74	8.40 112	22.804 141	65.63 268
17	28.057 155	63.15 185	62.36 49	42.79 284	12.812 101	9.52 115	22.663 185	68.31 232
27	27.902 182	65.00 164	61.87 58	45.63 244	12.711 120	10.67 112	22.478 224	70.63 192
Nov. 6	27.720 201	66.64 136	61.29 65	48.07 196	12.591 133	11.79 105	22.254 254	72.55 146
16	27.519 209	68.00 102	60.64 70	50.03 142	12.458 139	12.84 93	22.000 277	74.01 96
26	27.310 210	69.02 65	59.94 75	51.45 85	12.319 139	13.77 77	21.723 291	74.97 43
Dez. 6	27.100 201	69.67 24	59.19 77	52.30 24	12.180 133	14.54 59	21.432 296	75.40 12
16	26.899 187	69.91 18	58.42 75	52.54 38	12.047 124	15.13 38	21.136 292	75.28 66
26	26.712 165	69.73 59	57.67 73	52.16 100	11.923 110	15.51 17	20.844 278	74.62 120
36	26.547	69.14	56.94	51.16	11.813	15.68	20.566	73.42
Mittl. Ort	23.557	81.51	55.19	7.76	8.589	33.54	17.355	32.59
sec δ, tg δ	1.387	−0.961	3.877	+3.746	1.075	−0.394	1.828	+1.530
a, *a′*	+3.4	+19.4	+1.9	+19.5	+3.2	+19.5	+2.6	+19.6
b, *b′*	−0.06	+ 0.24	+0.24	+ 0.23	−0.03	+ 0.23	+0.10	+ 0.22

[1]) Die jährliche Parallaxe (0ʺ.145) ist bereits berücksichtigt.

*) Bei Stern 874), 873) und 875) lies September 8.

Tag		877) γ Tucanae AR.		877) γ Tucanae Dekl.		879) γ Sculptoris AR.		879) γ Sculptoris Dekl.		880) τ Pegasi AR.		880) τ Pegasi Dekl.	
1938		$23^h\ 13^m$		$-58°\ 33'$		$23^h\ 15^m$		$-32°\ 51'$		$23^h\ 17^m$		$+23°\ 24'$	
		s		"		s		"		s		"	
Jan.	1	48.992	254	103.37	131	29.095	123	76.88	36	34.486	115	15.43	123
	11	48.738	214	102.06	177	28.972	102	76.52	68	34.371	100	14.20	141
	21	48.524	168	100.29	218	28.870	77	75.84	98	34.271	80	12.79	154
	31	48.356	117	98.11	253	28.793	50	74.86	128	34.191	55	11.25	161
Febr.	10	48.239	62	95.58	283	28.743	19	73.58	154	34.136	26	9.64	160
	20	48.177	4	92.75	305	28.724	15	72.04	178	34.110	7	8.04	152
März	2	48.173	56	89.70	320	28.739	52	70.26	199	34.117	45	6.52	136
	12	48.229	118	86.50	329	28.791	92	68.27	217	34.162	84	5.16	113
	22	48.347	181	83.21	331	28.883	132	66.10	231	34.246	126	4.03	84
Apr.	1	48.528	243	79.90	326	29.015	172	63.79	242	34.372	168	3.19	50
	11	48.771	302	76.64	315	29.187	212	61.37	247	34.540	207	2.69	13
	21	49.073	356	73.49	296	29.399	250	58.90	248	34.747	244	2.56	26
Mai	1	49.429	404	70.53	271	29.649	284	56.42	242	34.991	275	2.82	65
	11	49.833	445	67.82	240	29.933	311	54.00	232	35.266	301	3.47	104
	21	50.278	476	65.42	203	30.244	332	51.68	216	35.567	318	4.51	139
	31	50.754	496	63.39	163	30.576	346	49.52	194	35.885	327	5.90	171
Juni	10	51.250	502	61.76	117	30.922	350	47.58	168	36.212	328	7.61	198
	20	51.752	496	60.59	69	31.272	345	45.90	138	36.540	320	9.59	220
	30	52.248	476	59.90	19	31.617	331	44.52	103	36.860	303	11.79	236
Juli	10	52.724	444	59.71	30	31.948	308	43.49	67	37.163	280	14.15	246
	20	53.168	398	60.01	79	32.256	277	42.82	29	37.443	249	16.61	249
	30	53.566	341	60.80	125	32.533	239	42.53	9	37.692	213	19.10	248
Aug.	9	53.907	276	62.05	166	32.772	195	42.62	45	37.905	173	21.58	241
	19	54.183	202	63.71	201	32.967	147	43.07	79	38.078	131	23.99	230
	29	54.385	125	65.72	228	33.114	98	43.86	108	38.209	89	26.29	214
Sept.	8	54.510	45	68.00	248	33.212	49	44.94	133	38.298	47	28.43	194
	17	10 54.555	33	70.48	257	10 33.261	1	46.27	151	11 38.345	7	30.37	171
	27	54.522	105	73.05	256	33.262	42	47.78	161	38.352	28	32.08	147
Okt.	7	54.417	171	75.61	244	33.220	81	49.39	165	38.324	60	33.55	121
	17	54.246	228	78.05	223	33.139	112	51.04	161	38.264	85	34.76	92
	27	54.018	272	80.28	192	33.027	136	52.65	150	38.179	106	35.68	63
Nov.	6	53.746	304	82.20	153	32.891	154	54.15	133	38.073	122	36.31	33
	16	53.442	322	83.73	108	32.737	162	55.48	110	37.951	131	36.64	3
	26	53.120	328	84.81	58	32.575	164	56.58	82	37.820	137	36.67	28
Dez.	6	52.792	322	85.39	6	32.411	160	57.40	52	37.683	138	36.39	58
	16	52.470	304	85.45	46	32.251	151	57.92	20	37.545	133	35.81	85
	26	52.166	276	84.99	99	32.100	136	58.12	13	37.412	126	34.96	111
	36	51.890		84.00		31.964		57.99		37.286		33.85	
Mittl. Ort		49.285		93.59		28.815		72.47		33.916		2.03	
sec δ, tg δ		1.918		−1.637		1.191		−0.646		1.090		+0.433	
a, *a′*		+3.5		+19.6		+3.2		+19.7		+3.0		+19.7	
b, *b′*		−0.11		+ 0.20		−0.04		+ 0.19		+0.03		+ 0.18	

Scheinbare Sternörter 1938

Tag	882) 4 Cassiopeiae AR.		882) 4 Cassiopeiae Dekl.		884) ϰ Piscium AR.		884) ϰ Piscium Dekl.		885) 70 Pegasi AR.		885) 70 Pegasi Dekl.	
1938	$23^h\ 22^m$		$+61°\ 56'$		$23^h\ 23^m$		$+0°\ 54'$		$23^h\ 26^m$		$+12°\ 25'$	
	s		"		s		"		s		"	
Jan. 1	4.92	34	55.24	130	45.789	96	63.21	75	1.632	103	15.26	100
11	4.58	31	53.94	181	45.693	82	62.46	71	1.529	90	14.26	108
21	4.27	26	52.13	223	45.611	65	61.75	65	1.439	73	13.18	111
31	4.01	20	49.90	257	45.546	44	61.10	55	1.366	52	12.07	110
Febr. 10	3.81	14	47.33	281	45.502	19	60.55	41	1.314	26	10.97	103
20	3.67	6	44.52	292	45.483	9	60.14	24	1.288	4	9.94	91
März 2	3.61	2	41.60	293	45.492	41	59.90	4	1.292	38	9.03	73
12	3.63	10	38.67	280	45.533	76	59.86	20	1.330	74	8.30	50
22	3.73	19	35.87	256	45.609	113	60.06	45	1.404	112	7.80	22
Apr. 1	3.92	27	33.31	223	45.722	150	60.51	72	1.516	152	7.58	7
11	4.19	35	31.08	181	45.872	187	61.23	99	1.668	190	7.65	40
21	4.54	42	29.27	132	46.059	221	62.22	125	1.858	226	8.05	73
Mai 1	4.96	47	27.95	79	46.280	252	63.47	148	2.084	257	8.78	105
11	5.43	51	27.16	23	46.532	277	64.95	168	2.341	282	9.83	134
21	5.94	53	26.93	34	46.809	295	66.63	184	2.623	301	11.17	161
31	6.47	55	27.27	89	47.104	307	68.47	196	2.924	313	12.78	183
Juni 10	7.02	54	28.16	142	47.411	310	70.43	202	3.237	315	14.61	200
20	7.56	53	29.58	191	47.721	305	72.45	202	3.552	310	16.61	213
30	8.09	49	31.49	234	48.026	293	74.47	198	3.862	296	18.74	218
Juli 10	8.58	45	33.83	272	48.319	272	76.45	188	4.158	275	20.92	219
20	9.03	40	36.55	303	48.591	244	78.33	174	4.433	248	23.11	215
30	9.43	33	39.58	327	48.835	212	80.07	156	4.681	214	25.26	205
Aug. 9	9.76	27	42.85	344	49.047	176	81.63	135	4.895	177	27.31	192
19	10.03	19	46.29	354	49.223	136	82.98	113	5.072	138	29.23	174
29	10.22	12	49.83	356	49.359	95	84.11	89	5.210	97	30.97	155
Sept. 8	$_{12}$10.34	5	53.39	351	$_{12}$49.454	55	85.00	64	$_{13}$5.307	57	32.52	133
17	10.39	2	56.90	338	49.509	17	85.64	41	5.364	19	33.85	110
27	10.37	9	60.28	319	49.526	17	86.05	19	5.383	16	34.95	86
Okt. 7	10.28	16	63.47	293	49.509	47	86.24	2	5.367	46	35.81	63
17	10.12	21	66.40	260	49.462	72	86.22	19	5.321	71	36.44	39
27	9.91	25	69.00	221	49.390	91	86.03	34	5.250	91	36.83	16
Nov. 6	9.66	30	71.21	176	49.299	105	85.69	48	5.159	106	36.99	5
16	9.36	33	72.97	126	49.194	114	85.21	58	5.053	116	36.94	27
26	9.03	35	74.23	72	49.080	118	84.63	66	4.937	121	36.67	46
Dez. 6	8.68	37	74.95	15	48.962	117	83.97	72	4.816	122	36.21	64
16	8.31	36	75.10	42	48.845	113	83.25	76	4.694	119	35.57	81
26	7.95	36	74.68	99	48.732	105	82.49	77	4.575	113	34.76	95
36	7.59		73.69		48.627		81.72		4.462		33.81	
Mittl. Ort	4.46		31.83		45.232		57.31		1.025		5.50	
sec δ tg δ	2.126		+1.876		1.000		+0.016		1.024		+0.220	
a, *a'*	+2.7		+19.8		+3.1		+19.8		+3.0		+19.8	
b, *b'*	+0.12		+ 0.16		0.00		+ 0.16		+0.01		+ 0.15	

Tag	891) ι Andromedae AR.		891) ι Andromedae Dekl.		892) ι Piscium AR.		892) ι Piscium Dekl.		893) γ Cephei AR.		893) γ Cephei Dekl.	
1938	$23^h\ 35^m$	Diff.	$+42°\ 55'$	Diff.	$23^h\ 36^m$	Diff.	$+5°\ 17'$	Diff.	$23^h\ 36^m$	Diff.	$+77°\ 17'$	Diff.
	s		″		s		″		s		″	
Jan. 1	6.075	181	47.63	125	46.253	102	31.08	84	47.64	86	36.42	89
11	5.894	166	46.38	161	46.151	90	30.24	85	46.78	80	35.53	148
21	5.728	143	44.77	192	46.061	76	29.39	82	45.98	70	34.05	201
31	5.585	113	42.85	216	45.985	55	28.57	76	45.28	58	32.04	246
Febr. 10	5.472	76	40.69	230	45.930	32	27.81	65	44.70	44	29.58	281
20	5.396	32	38.39	234	45.898	4	27.16	50	44.26	27	26.77	304
März 2	5.364	17	36.05	228	45.894	28	26.66	31	43.99	9	23.73	314
12	5.381	69	33.77	213	45.922	63	26.35	8	43.90	10	20.59	312
22	5.450	124	31.64	188	45.985	101	26.27	18	44.00	29	17.47	297
Apr. 1	5.574	178	29.76	154	46.086	140	26.45	45	44.29	47	14.50	270
11	5.752	230	28.22	115	46.226	178	26.90	74	44.76	63	11.80	234
21	5.982	277	27.07	71	46.404	213	27.64	102	45.39	77	9.46	190
Mai 1	6.259	317	26.36	23	46.617	246	28.66	129	46.16	88	7.56	138
11	6.576	350	26.13	25	46.863	273	29.95	152	47.04	98	6.18	83
21	6.926	373	26.38	74	47.136	294	31.47	173	48.02	104	5.35	25
31	7.299	386	27.12	120	47.430	306	33.20	189	49.06	106	5.10	33
Juni 10	7.685	389	28.32	162	47.736	312	35.09	199	50.12	106	5.43	90
20	8.074	381	29.94	201	48.048	309	37.08	204	51.18	103	6.33	145
30	8.455	363	31.95	233	48.357	297	39.12	205	52.21	97	7.78	195
Juli 10	8.818	336	34.28	260	48.654	279	41.17	199	53.18	89	9.73	241
20	9.154	302	36.88	281	48.933	253	43.16	189	54.07	79	12.14	281
30	9.456	262	39.69	295	49.186	222	45.05	174	54.86	68	14.95	315
Aug. 9	9.718	216	42.64	302	49.408	186	46.79	156	55.54	54	18.10	341
19	9.934	168	45.66	303	49.594	148	48.35	136	56.08	40	21.51	361
29	10.102	118	48.69	299	49.742	108	49.71	113	56.48	26	25.12	372
Sept. 8	15 10.220	69	51.68	288	15 49.850	69	50.84	90	15 56.74	12	28.84	377
17	10.289	22	54.56	271	49.919	31	51.74	67	56.86	4	32.61	373
27	10.311	22	57.27	249	49.950	3	52.41	43	56.82	18	36.34	362
Okt. 7	10.289	62	59.76	223	49.947	34	52.84	22	56.64	32	39.96	342
17	10.227	98	61.99	193	49.913	60	53.06	2	56.32	45	43.38	314
27	10.129	128	63.92	158	49.853	81	53.08	17	55.87	57	46.52	280
Nov. 6	10.001	152	65.50	119	49.772	97	52.91	33	55.30	67	49.32	237
16	9.849	172	66.69	77	49.675	108	52.58	47	54.63	77	51.69	188
26	9.677	186	67.46	33	49.567	114	52.11	59	53.86	84	53.57	132
Dez. 6	9.491	194	67.79	12	49.453	117	51.52	70	53.02	87	54.89	73
16	9.297	195	67.67	57	49.336	115	50.82	78	52.15	90	55.62	11
26	9.102	192	67.10	101	49.221	109	50.04	83	51.25	89	55.73	53
36	8.910		66.09		49.112		49.21		50.36		55.20	
Mittl. Ort	5.362		28.45		45.603		23.88		47.18		10.69	
sec δ, tg δ	1.366		+0.930		1.004		+0.093		4.544		+4.432	
a, a′	+2.9		+19.9		+3.1		+19.9		+2.5		+19.9	
b, b′	+0.06		+ 0.11		+0.01		+ 0.10		+0.29		+ 0.10	

Tag	894) ω² Aquarii				895) 41 H. Cephei				896) Lac. δ Sculptoris			
	AR.		Dekl.		AR.		Dekl.		AR.		Dekl.	
1938	$23^h\ 39^m$		$-14°\ 52'$		$23^h\ 44^m$		$+67°\ 27'$		$23^h\ 45^m$		$-28°\ 27'$	
	s		"		s		"		s		"	
Jan. 1	31.071	107	75.99	34	56.75	45	68.63	95	42.434	130	87.98	2
11	30.964	95	76.33	15	56.30	43	67.68	150	42.304	116	87.96	33
21	30.869	79	76.48	5	55.87	37	66.18	200	42.188	98	87.63	64
31	30.790	59	76.43	26	55.50	31	64.18	241	42.090	76	86.99	94
Febr. 10	30.731	34	76.17	48	55.19	24	61.77	272	42.014	50	86.05	123
20	30.697	7	75.69	71	54.95	15	59.05	292	41.964	19	84.82	149
März 2	30.690	25	74.98	94	54.80	4	56.13	300	41.945	15	83.33	173
12	30.715	60	74.04	117	54.76	6	53.13	296	41.960	53	81.60	195
22	30.775	97	72.87	138	54.82	17	50.17	279	42.013	93	79.65	213
Apr. 1	30.872	135	71.49	159	54.99	27	47.38	252	42.106	134	77.52	229
11	31.007	174	69.90	178	55.26	37	44.86	215	42.240	175	75.23	240
21	31.181	211	68.12	192	55.63	46	42.71	171	42.415	215	72.83	246
Mai 1	31.392	244	66.20	204	56.09	53	41.00	121	42.630	252	70.37	246
11	31.636	272	64.16	211	56.62	59	39.79	66	42.882	283	67.91	242
21	31.908	294	62.05	212	57.21	63	39.13	9	43.165	308	65.49	232
31	32.202	309	59.93	209	57.84	65	39.04	47	43.473	326	63.17	216
Juni 10	32.511	316	57.84	200	58.49	65	39.51	101	43.799	336	61.01	194
20	32.827	316	55.84	185	59.14	64	40.52	154	44.135	337	59.07	167
30	33.143	305	53.99	166	59.78	61	42.06	202	44.472	328	57.40	137
Juli 10	33.448	288	52.33	143	60.39	57	44.08	244	44.800	311	56.03	102
20	33.736	263	50.90	117	60.96	51	46.52	281	45.111	286	55.01	65
30	33.999	231	49.73	87	61.47	44	49.33	312	45.397	254	54.36	28
Aug. 9	34.230	195	48.86	57	61.91	37	52.45	335	45.651	215	54.08	10
19	34.425	156	48.29	26	62.28	28	55.80	351	45.866	173	54.18	46
29	34.581	114	48.03	3	62.56	20	59.31	360	46.039	127	54.64	79
Sept. 8	34.695	72	48.06	30	62.76	11	62.91	361	46.166	81	55.43	107
17*)	[16] 34.767	32	48.36	54	[17] 62.87	2	66.52	356	46.247	36	56.50	131
27	34.799	5	48.90	73	62.89	6	70.08	342	[18] 46.283	6	57.81	148
Okt. 7	34.794	38	49.63	89	62.83	14	73.50	322	46.277	43	59.29	158
17	34.756	67	50.52	98	62.69	21	76.72	293	46.234	77	60.87	160
27	34.689	89	51.50	103	62.48	27	79.65	258	46.157	104	62.47	156
Nov. 6	34.600	106	52.53	103	62.21	34	82.23	216	46.053	124	64.03	144
16	34.494	117	53.56	99	61.87	39	84.39	169	45.929	138	65.47	127
26	34.377	124	54.55	90	61.48	43	86.08	115	45.791	147	66.74	105
Dez. 6	34.253	125	55.45	78	61.05	45	87.23	58	45.644	149	67.79	79
16	34.128	122	56.23	63	60.60	47	87.81	1	45.495	146	68.58	50
26	34.006	116	56.86	47	60.13	47	87.80	61	45.349	139	69.08	19
36	33.890		57.33		59.66		87.19		45.210		69.27	
Mittl. Ort	30.509		76.31		55.94		44.13		41.946		83.92	
sec δ, tg δ	1.035		−0.266		2.609		+2.410		1.138		−0.542	
a, *a'*	+3.1		+20.0		+2.9		+20.0		+3.1		+20.0	
b, *b'*	−0.02		+ 0.09		+0.16		+ 0.07		−0.04		+ 0.06	

*) Bei Stern 896) lies September 18.

Tag	898) φ Pegasi AR.		898) φ Pegasi Dekl.		902) ω Piscium AR.		902) ω Piscium Dekl.		903) ε Tucanae AR.		903) ε Tucanae Dekl.	
1938	$23^h\ 49^m$		$+18°\ 46'$		$23^h\ 56^m$		$+6°\ 31'$		$23^h\ 56^m$		$-65°\ 54'$	
	s		"		s		"		s		"	
Jan. 1	20.614	119	44.51	100	8.332	109	19.48	82	42.12	41	92.42	106
11	20.495	109	43.51	114	8.223	101	18.66	84	41.71	37	91.36	159
21	20.386	96	42.37	125	8.122	89	17.82	82	41.34	33	89.77	208
31	20.290	76	41.12	130	8.033	72	17.00	78	41.01	27	87.69	252
Febr. 10	20.214	52	39.82	129	7.961	50	16.22	68	40.74	21	85.17	288
20	20.162	22	38.53	122	7.911	23	15.54	54	40.53	13	82.29	317
März 2	20.140	12	37.31	108	7.888	8	15.00	37	40.40	6	79.12	339
12	20.152	50	36.23	88	7.896	43	14.63	15	40.34	2	75.73	354
22	20.202	91	35.35	63	7.939	81	14.48	10	40.36	10	72.19	360
Apr. 1	20.293	133	34.72	33	8.020	121	14.58	37	40.46	18	68.59	359
11	20.426	175	34.39	0	8.141	161	14.95	65	40.64	27	65.00	350
21	20.601	214	34.39	35	8.302	199	15.60	94	40.91	34	61.50	333
Mai 1	20.815	249	34.74	69	8.501	234	16.54	121	41.25	41	58.17	310
11	21.064	279	35.43	103	8.735	263	17.75	145	41.66	48	55.07	279
21	21.343	302	36.46	135	8.998	287	19.20	166	42.14	53	52.28	242
31	21.645	316	37.81	162	9.285	303	20.86	184	42.67	57	49.86	200
Juni 10	21.961	322	39.43	186	9.588	311	22.70	196	43.24	59	47.86	153
20	22.283	321	41.29	205	9.899	311	24.66	203	43.83	60	46.33	101
30	22.604	311	43.34	218	10.210	303	26.69	205	44.43	60	45.32	48
Juli 10	22.915	292	45.52	226	10.513	287	28.74	201	45.03	57	44.84	7
20	23.207	266	47.78	227	10.800	264	30.75	193	45.60	54	44.91	62
30	23.473	236	50.05	224	11.064	236	32.68	179	46.14	48	45.53	113
Aug. 9	23.709	201	52.29	216	11.300	202	34.47	163	46.62	41	46.66	162
19	23.910	162	54.45	204	11.502	165	36.10	143	47.03	32	48.28	205
29	24.072	121	56.49	187	11.667	126	37.53	120	47.35	24	50.33	240
Sept. 8	24.193	82	58.36	169	11.793	88	38.73	98	47.59	14	52.73	267
18	24.275	44	60.05	147	[20]11.881	51	39.71	75	[20]47.73	4	55.40	284
27	[19]24.319	8	61.52	124	11.932	16	40.46	51	47.77	6	58.24	290
Okt. 7	24.327	25	62.76	100	11.948	16	40.97	29	47.71	15	61.14	284
17	24.302	52	63.76	76	11.932	43	41.26	10	47.56	23	63.98	268
27	24.250	75	64.52	50	11.889	67	41.36	10	47.33	31	66.66	240
Nov. 6	24.175	95	65.02	25	11.822	84	41.26	27	47.02	36	69.06	202
16	24.080	109	65.27	0	11.738	98	40.99	42	46.66	41	71.08	156
26	23.971	119	65.27	25	11.640	108	40.57	54	46.25	43	72.64	104
Dez. 6	23.852	124	65.02	48	11.532	114	40.03	65	45.82	45	73.68	48
16	23.728	127	64.54	70	11.418	117	39.38	75	45.37	45	74.16	10
26	23.601	126	63.84	91	11.301	114	38.63	81	44.92	42	74.06	69
36	23.475		62.93		11.187		37.82		44.50		73.37	
Mittl. Ort	19.836		32.85		7.560		12.16		42.40		80.02	
sec δ, tg δ	1.056		+0.340		1.007		+0.114		2.451		−2.238	
a, *a'*	+3.1		+20.0		+3.1		+20.0		+3.1		+20.0	
b, *b'*	+0.02		+ 0.05		+0.01		+ 0.02		−0.15		+ 0.01	

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Na) 43 Hev. Cephei $4^{m}.52$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder in 0.01 (s)	Januar ☾ Glieder in 0.01 (")	Februar AR.	Februar Dekl.	Februar ☾ Glieder in 0.01 (s)	Februar ☾ Glieder in 0.01 (")	März AR.	März Dekl.	März ☾ Glieder in 0.01 (s)	März ☾ Glieder in 0.01 (")	April AR.	April Dekl.	April ☾ Glieder in 0.01 (s)	April ☾ Glieder in 0.01 (")
	$0^h 59^m$	$+85° 55'$			$0^h 59^m$	$+85° 55'$			$0^h 59^m$	$+85° 55'$			$0^h 59^m$	$+85° 55'$		
	s	"			s	"			s	"			s	"		
1	61.95	57.67	+7	+1	53.06	56.92	−2	+6	46.68	51.40	−4	+5	43.97	42.15	−8	−6
2	61.66	57.74	+5	+3	52.79	56.80	−6	+4	46.52	51.14	−7	+3	43.97	41.83	−5	−9
3	61.38	57.81	+3	+5	52.52	56.67	−8	+1	46.35	50.87	−9	0	43.98	41.51	−1	−9
4	61.09	57.87	0	+6	52.25	56.53	−9	−3	46.19	50.60	−9	−4	43.99	41.20	+3	−8
5	60.80	57.92	−4	+5	51.99	56.39	−9	−6	46.04	50.33	−7	−7	44.01	40.88	+7	−4
6	60.51	57.97	−7	+3	51.73	56.24	−6	−9	45.89	50.05	−4	−9	44.04	40.57	+8	0
7	60.22	58.01	−9	0	51.47	56.08	−2	−10	45.75	49.77	0	−9	*)44.07	40.26	+8	+4
8	59.93	58.04	−10	−4	51.22	55.92	+2	−9	45.61	49.49	+4	−7	44.11	39.95	+6	+7
9	59.64	58.06	−8	−7	50.97	55.76	+6	−6	45.48	49.20	+7	−4	44.15	39.63	+3	+9
10	59.35	58.08	−5	−10	50.72	55.59	+8	−2	45.35	48.91	+9	+1	44.20	39.32	−1	+9
11	59.05	58.10	−1	−10	50.48	55.41	+8	+3	45.23	48.62	+7	+5	44.26	39.02	−4	+7
12	58.76	58.11	+4	−8	50.23	55.23	+7	+7	45.12	48.33	+5	+8	44.32	38.71	−6	+4
13	58.47	58.11	+7	−4	49.99	55.05	+4	+9	45.00	48.03	+1	+9	44.38	38.40	−7	+1
14	58.18	58.11	+9	0	49.75	54.86	0	+10	44.90	47.74	−3	+8	44.46	38.10	−6	−3
15	57.88	58.10	+8	+5	49.52	54.66	−4	+8	44.80	47.44	−5	+6	44.54	37.79	−3	−5
16	57.59	58.08	+6	+8	49.29	54.46	−6	+5	44.70	47.14	−7	+3	44.62	37.49	0	−6
17	57.30	58.05	+2	+10	49.06	54.25	−7	+2	44.61	46.84	−7	−1	44.71	37.19	+2	−6
18	57.01	58.02	−2	+10	48.84	54.03	−6	−2	44.53	46.53	−5	−4	44.80	36.90	+5	−5
19	56.71	57.98	−5	+8	48.62	53.82	−4	−4	44.45	46.23	−2	−6	44.90	36.60	+7	−3
20	56.42	57.94	−7	+4	48.41	53.59	−1	−6	44.38	45.92	+1	−6	45.01	36.31	+7	0
21	56.14	57.89	−7	+1	48.20	53.37	+2	−6	44.31	45.61	+4	−6	45.12	36.02	+7	+2
22	55.85	57.83	−5	−3	48.00	53.14	+5	−5	44.25	45.30	+6	−4	45.23	35.73	+5	+4
23	55.56	57.77	−2	−5	47.80	52.90	+7	−3	44.20	44.99	+7	−2	45.36	35.45	+2	+6
24	55.28	57.70	0	−6	47.60	52.66	+8	0	44.15	44.67	+7	+1	45.48	35.16	−2	+5
25	54.99	57.63	+4	−6	47.41	52.42	+7	+2	44.11	44.36	+6	+3	45.62	34.88	−5	+4
26	54.71	57.55	+6	−4	47.22	52.17	+5	+4	44.07	44.05	+4	+5	45.76	34.60	−8	+2
27	54.43	57.46	+7	−2	47.04	51.92	+2	+6	44.04	43.73	0	+6	45.90	34.32	−9	−2
28	54.15	57.37	+7	0	46.86	51.66	−1	+6	44.01	43.41	−3	+6	46.05	34.05	−9	−5
29	53.87	57.26	+6	+3	46.68	51.40	−4	+5	43.99	43.10	−6	+4	46.20	33.78	−7	−8
30	53.60	57.16	+4	+5					43.98	42.78	−9	+1	46.35	33.52	−3	−9
31	53.33	57.04	+1	+6					43.97	42.46	−9	−3	46.52	33.26	+1	−9
32	53.06	56.92	−2	+6					43.97	42.15	−8	−6				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 55′ 30″	14.072	+ 14.037	+85° 55′ 40″	14.082	+ 14.046	+85° 55′ 50″	14.091	+ 14.056
40	14.082	+ 14.046	50	14.091	+ 14.056	60	14.101	+ 14.065

$\alpha_{1938.0} = 0^h\ 59^m\ 53^s.61$ $\delta_{1938.0} = +85°\ 55'\ 32''.41$

*) Tag der doppelten unteren Kulmination: April 7.

Obere Kulmination Greenwich

Na) 43 Hev. Cephei $4^{m}.52$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in	
	$0^{h}\ 59^{m}$	$+85°\ 55'$	$0^{s}.01$	$0''.01$	$0^{h}\ 59^{m}$	$+85°\ 55'$	$0^{s}.01$	$0''.01$	$1^{h}\ 0^{m}$	$+85°\ 55'$	$0^{s}.01$	$0''.01$	$1^{h}\ 0^{m}$	$+85°\ 55'$	$0^{s}.01$	$0''.01$
1	46.52	33.26	+1	−9	53.63	27.19	+8	+5	2.83	25.98	0	+10	12.39	29.87	−6	0
2	46.68	33.00	+5	−6	53.91	27.07	+6	+8	3.15	26.02	−3	+8	12.68	30.07	−4	−3
3	46.85	32.74	+8	−2	54.19	26.95	+2	+10	3.47	26.08	−6	+6	12.96	30.28	−1	−5
4	47.03	32.49	+9	+3	54.48	26.84	−1	+10	3.79	26.14	−7	+2	13.24	30.49	+2	−5
5	47.21	32.24	+7	+7	54.77	26.74	−5	+7	4.11	26.20	−6	−1	13.52	30.71	+5	−4
6	47.40	32.00	+4	+9	55.06	26.64	−6	+4	4.43	26.27	−3	−4	13.80	30.93	+7	−2
7	47.59	31.76	+1	+10	55.35	26.55	−6	0	4.74	26.34	0	−5	14.07	31.16	+8	0
8	47.79	31.52	−3	+8	55.65	26.46	−5	−3	5.06	26.42	+3	−5	14.34	31.39	+7	+2
9	47.98	31.29	−5	+6	55.95	26.38	−2	−5	5.38	26.51	+5	−4	14.61	31.63	+6	+4
10	48.19	31.06	−7	+2	56.25	26.31	+1	−6	5.69	26.60	+7	−2	14.87	31.87	+3	+6
11	48.40	30.84	−6	−1	56.55	26.23	+4	−5	6.01	26.69	+7	0	15.14	32.11	0	+6
12	48.61	30.62	−4	−4	56.85	26.17	+6	−4	6.33	26.79	+7	+3	15.40	32.36	−3	+5
13	48.82	30.40	−1	−6	57.15	26.11	+7	−2	6.64	26.90	+5	+4	15.66	32.61	−6	+3
14	49.05	30.19	+1	−6	57.46	26.05	+7	+1	6.97	27.01	+2	+5	15.91	32.87	−8	+1
15	49.27	29.98	+4	−5	57.77	26.00	+6	+3	7.27	27.12	−1	+6	16.16	33.13	−9	−3
16	49.50	29.78	+6	−3	58.08	25.96	+4	+4	7.58	27.24	−4	+4	16.41	33.40	−8	−6
17	49.73	29.58	+7	−1	58.39	25.92	+1	+6	7.89	27.37	−7	+2	16.65	33.66	−6	−9
18	49.97	29.39	+7	+1	58.70	25.88	−2	+5	8.20	27.50	−9	−1	16.89	33.94	−2	−10
19	50.21	29.20	+5	+3	59.01	25.86	−6	+3	8.51	27.63	−9	−5	17.13	34.21	+1	−9
20	50.45	29.02	+3	+5	59.33	25.84	−8	+1	8.82	27.78	−8	−8	17.37	34.49	+5	−6
21	50.70	28.84	0	+5	59.64	25.82	−10	−3	9.13	27.92	−5	−10	17.60	34.77	+7	−2
22	50.95	28.67	−4	+5	59.96	25.81	−9	−6	9.43	28.07	−1	−10	17.84	35.06	+8	+3
23	51.21	28.50	−7	+3	60.27	25.81	−7	−9	9.73	28.23	+3	−8	18.06	35.35	+6	+7
24	51.46	28.33	−9	−1	60.59	25.81	−3	−10	10.04	28.39	+7	−4	18.29	35.64	+3	+8
25	51.73	28.17	−10	−4	60.91	25.82	+1	−9	10.34	28.56	+8	0	18.51	35.94	−1	+9
26	51.99	28.01	−8	−8	61.23	25.83	+5	−7	10.64	28.73	+7	+4	18.73	36.24	−4	+7
27	52.26	27.86	−5	−10	61.55	25.85	+8	−2	10.94	28.91	+5	+8	18.94	36.54	−6	+4
28	52.52	27.72	−1	−10	61.87	25.87	+9	+3	11.23	29.09	+1	+9	19.16	36.85	−7	+1
29	52.80	27.58	+3	−8	62.19	25.90	+7	+7	11.52	29.28	−2	+9	19.36	37.16	−6	−2
30	53.07	27.44	+7	−4	62.51	25.94	+4	+9	11.81	29.47	−5	+7	19.57	37.47	−3	−5
31	53.35	27.31	+8	0	62.83	25.98	0	+10	12.10	29.67	−7	+4	19.77	37.78	0	−5
32	53.63	27.19	+8	+5					12.39	29.87	−6	0	19.97	38.10	+4	−5

δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 55′ 20″	14.063	+14.027	+85° 55′ 30″	14.072	+14.037
30	14.072	+14.037	40	14.082	+14.046

$\alpha_{1938.0} = 0^{h}\ 59^{m}\ 53^{s}.61$ $\delta_{1938.0} = +85°\ 55'\ 32''.41$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Na) 43 Hev. Cephei $4^{m}.52$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$1^h\ 0^m$	$+85°\ 55'$	in $0^s.01$	in $0''.01$	$1^h\ 0^m$	$+85°\ 55'$	in $0^s.01$	in $0''.01$	$1^h\ 0^m$	$+85°\ 56'$	in $0^s.01$	in $0''.01$	$1^h\ 0^m$	$+85°\ 56'$	in $0^s.01$	in $0''.01$
1	19.97	38.10	+4	−5	24.04	48.65	+8	0	24.00	0.51	−2	+6	19.70	9.79	−9	−1
2	20.16	38.42	+6	−3	24.11	49.02	+7	+3	23.92	0.86	−5	+4	19.49	10.04	−9	−5
3	20.35	38.74	+8	−1	24.18	49.40	+6	+5	23.83	1.22	−8	+1	19.28	10.29	−8	−8
4	20.54	39.07	+8	+2	24.24	49.77	+3	+6	23.75	1.56	−9	−2	19.07	10.53	−5	−9
5	20.72	39.40	+7	+4	24.29	50.15	0	+6	23.65	1.91	−8	−6	18.85	10.76	−1	−10
6	20.90	39.73	+5	+5	24.35	50.52	−4	+5	23.55	2.25	−6	−8	18.63	10.99	+3	−8
7	21.08	40.07	+2	+6	24.39 / 24.43	50.90 / 51.28	−6 / −8	+3 / 0	23.45	2.59	−3	−9	18.40	11.22	+6	−4
8	21.25	40.40	−1	+6	24.47	51.65	−9	−3	23.35	2.93	+1	−9	18.18	11.44	+7	0
9	21.42	40.74	−5	+4	24.51	52.03	−8	−6	23.23	3.27	+5	−6	17.94	11.65	+7	+5
10	21.58	41.08	−7	+2	24.53	52.41	−5	−9	23.12	3.60	+7	−2	17.71	11.86	+5	+8
11	21.74	41.42	−9	−1	24.56	52.78	−1	−9	23.00	3.93	+8	+2	17.47	12.07	+2	+9
12	21.89	41.76	−8	−5	24.58	53.16	+3	−8	22.88	4.26	+6	+6	17.23	12.27	−2	+9
13	22.04	42.11	−7	−8	24.59	53.53	+6	−5	22.75	4.58	+4	+8	16.98	12.47	−5	+6
14	22.19	42.46	−4	−9	24.60	53.91	+7	−1	22.61	4.90	0	+9	16.73	12.66	−7	+3
15	22.33	42.81	0	−9	24.61	54.28	+7	+3	22.48	5.22	−3	+8	16.48	12.84	−6	0
16	22.47	43.16	+4	−7	24.61	54.66	+5	+7	22.33	5.53	−6	+5	16.23	13.02	−4	−3
17	22.60	43.52	+7	−4	24.61	55.03	+2	+8	22.19	5.84	−7	+1	15.97	13.19	−1	−5
18	22.73	43.88	+8	0	24.60	55.40	−1	+8	22.04	6.15	−6	−2	15.71	13.36	+2	−5
19	22.86	44.24	+7	+5	24.58	55.77	−5	+6	21.88	6.45	−4	−4	15.45	13.52	+4	−4
20	22.98	44.60	+4	+7	24.57	56.15	−6	+3	21.72	6.75	−1	−6	15.19	13.67	+7	−3
21	23.10	44.96	0	+8	24.55	56.52	−7	0	21.56	7.05	+3	−5	14.92	13.82	+8	0
22	23.21	45.32	−3	+8	24.52	56.89	−5	−3	21.39	7.34	+5	−4	14.65	13.96	+7	+2
23	23.32	45.69	−6	+5	24.49	57.26	−3	−5	21.22	7.63	+7	−2	14.38	14.10	+6	+4
24	23.43	46.06	−7	+2	24.45	57.63	+1	−6	21.05	7.92	+8	+1	14.11	14.23	+3	+6
25	23.53	46.42	−6	−1	24.41	58.00	+4	−5	20.87	8.20	+7	+3	13.83	14.35	0	+6
26	23.62	46.79	−4	−4	24.36	58.36	+6	−3	20.69	8.47	+5	+5	13.56	14.47	−3	+5
27	23.72	47.16	−1	−6	24.31	58.72	+8	−1	20.50	8.75	+2	+6	13.28	14.59	−6	+3
28	23.81	47.53	+2	−5	24.26	59.08	+7	+2	20.30	9.01	−1	+6	13.00	14.69	−8	0
29	23.89	47.90	+5	−4	24.20	59.44	+6	+4	20.11	9.28	−4	+5	12.72	14.80	−9	−3
30	23.97	48.28	+7	−2	24.14	59.80	+4	+6	19.91	9.54	−7	+2	12.44	14.89	−8	−7
31	24.04	48.65	+8	0	24.07	60.16	+1	+6	19.70	9.79	−9	−1	12.15	14.98	−6	−9
32					24.00	60.51	−2	+6					11.87	15.07	−3	−10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 55′ 30″	14.072	+ 14.037	+85° 55′ 50″	14.091	+ 14.056	+85° 56′ 10″	14.111	+ 14.075
40	14.082	+ 14.046	60	14.101	+ 14.065	20	14.120	+ 14.085

$\alpha_{1938.0} = 0^h\ 59^m\ 53^s.61$ $\delta_{1938.0} = +85°\ 55'\ 32''.41$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Nb) α Ursae minoris $2^{m}.12$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
		+	in			+	in			+	in			+	in	
	$1^h 41^m$	88° 58′	$0^s.01$	0″.01	$1^h 41^m$	88° 58′	$0^s.01$	0″.01	$1^h 40^m$	88° 58′	$0^s.01$	0″.01	$1^h 40^m$	88° 58′	$0^s.01$	0″.01
	s	″			s	″			s	″			s	″		
1	69.41	31.79	+26	0	33.49	33.05	−8	+6	64.48	28.96	−16	+6	47.21	20.40	−32	−5
2	68.31	31.93	+21	+2	32.33	32.98	−21	+5	63.63	28.74	−28	+4	47.00	20.09	−21	−8
3	67.22	32.06	+12	+4	31.18	32.91	−31	+3	62.80	28.51	−35	+1	46.81	19.77	−7	−9
4	66.11	32.19	0	+6	30.03	32.83	−36	−1	61.98	28.28	−36	−3	46.64	19.46	+11	−8
5	65.00	32.31	−14	+6	28.89	32.75	−34	−5	61.19	28.04	−29	−6	46.49	19.14	+24	−6
6	63.88	32.42	−27	+4	27.75	32.66	−25	−8	60.41	27.80	−17	−9	46.37	18.83	+32	−2
7	62.75	32.52	−35	+1	26.63	32.56	−11	−9	59.65	27.56	−1	−9	46.27	18.51	+32	+3
8	61.61	32.62	−37	−3	25.51	32.46	+6	−9	58.91	27.31	+15	−8	46.20	18.20	+25	+6
9	60.47	32.71	−33	−6	24.39	32.35	+20	−7	58.18	27.06	+27	−5	46.14	17.88	+13	+9
10	59.32	32.80	−21	−9	23.29	32.24	+30	−3	57.48	26.80	+33	−1	46.11	17.57	−2	+9
11	58.17	32.88	−5	−10	22.19	32.12	+32	+1	56.79	26.54	+29	+4	46.10	17.25	−14	+8
12	57.01	32.95	+12	−9	21.11	31.99	+27	+6	56.13	26.27	+20	+7	46.12	16.93	−23	+5
13	55.85	33.02	+26	−6	20.03	31.86	+16	+9	55.48	26.00	+7	+9	46.15	16.62	−26	+2
14	54.68	33.08	+33	−1	18.97	31.72	+1	+10	54.86	25.73	−8	+9	46.21	16.30	−22	−2
15	53.51	33.14	+32	+4	17.91	31.57	−12	+9	54.25	25.46	−19	+7	46.30	15.99	−13	−4
16	52.34	33.19	+24	+7	16.86	31.42	−22	+6	53.67	25.18	−24	+4	46.40	15.67	−3	−6
17	51.16	33.23	+11	+10	15.83	31.26	−26	+3	53.10	24.90	−25	0	*)46.53	15.36	+9	−6
18	49.98	33.26	−4	+10	14.81	31.10	−24	0	52.55	24.61	−20	−3	46.68	15.05	+18	−6
19	48.80	33.29	−17	+9	13.80	30.93	−16	−4	52.03	24.33	−10	−5	46.86	14.73	+25	−4
20	47.62	33.31	−24	+6	12.80	30.76	−5	−6	51.53	24.04	+2	−6	47.05	14.42	+28	−2
21	46.43	33.33	−25	+2	11.82	30.58	+8	−6	51.05	23.74	+14	−6	47.27	14.11	+26	+1
22	45.24	33.34	−21	−2	10.85	30.40	+17	−6	50.59	23.45	+22	−5	47.51	13.80	+19	+3
23	44.06	33.34	−11	−4	9.89	30.21	+25	−4	50.15	23.15	+27	−3	47.77	13.49	+8	+5
24	42.88	33.33	+1	−6	8.95	30.01	+29	−2	49.74	22.86	+28	0	48.06	13.19	−6	+6
25	41.70	33.32	+12	−6	8.02	29.81	+26	+1	49.34	22.56	+23	+2	48.36	12.88	−19	+5
26	40.52	33.30	+21	−5	7.11	29.60	+20	+3	48.97	22.25	+15	+4	48.69	12.58	−30	+3
27	39.34	33.27	+27	−3	6.22	29.39	+10	+5	48.62	21.95	+2	+6	49.04	12.28	−36	0
28	38.16	33.24	+28	−1	5.34	29.18	−3	+6	48.29	21.64	−11	+6	49.41	11.98	−36	−4
29	36.99	33.20	+24	+2	4.48	28.96	−16	+6	47.99	21.33	−23	+5	49.80	11.68	−27	−7
30	35.82	33.16	+16	+4					47.71	21.02	−32	+2	50.21	11.38	−14	−9
31	34.65	33.11	+5	+6					47.45	20.71	−36	−1	50.65	11.09	+2	−9
32	33.49	33.05	−8	+6					47.21	20.40	−32	−5				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+88° 58′ 10″	55.600	+55.591	+88° 58′ 20″	55.750	+55.741	+88° 58′ 30″	55.901	+55.892
20	55.750	+55.741	30	55.901	+55.892	40	56.053	+56.044

$\alpha_{1938.0} = 1^h\ 41^m\ 22^s.65$ $\delta_{1938.0} = +88°\ 58'\ 8''.25$

*) Tag der doppelten unteren Kulmination: April 17.

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Nb) α Ursae minoris $2^{m}.12$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
		+	in			+	in			+	in			+	in	
	$1^{h}\,40^{m}$	88° 58′	$0^{s}.01$	$0''.01$	$1^{h}\,41^{m}$	88° 58′	$0^{s}.01$	$0''.01$	$1^{h}\,41^{m}$	88° 58′	$0^{s}.01$	$0''.01$	$1^{h}\,42^{m}$	88° 58′	$0^{s}.01$	$0''.01$
	s	"			s	"			s	"			s	"		
1	50.65	11.09	+ 2	− 9	13.29	3.62	+32	+ 4	47.13	0.51	+ 2	+10	25.78	2.35	−24	+ 1
2	51.11	10.80	+18	− 7	14.28	3.44	+25	+ 8	48.37	0.49	−11	+ 9	26.99	2.49	−17	− 2
3	51.58	10.51	+29	− 4	15.27	3.27	+11	+10	49.61	0.47	−21	+ 7	28.20	2.64	− 7	− 5
4	52.08	10.23	+33	+ 1	16.28	3.10	− 4	+10	50.85	0.46	−25	+ 3	29.41	2.79	+ 6	− 6
5	52.59	9.94	+29	+ 6	17.30	2.94	−16	+ 8	52.09	0.46	−22	0	30.61	2.95	+17	− 5
6	53.13	9.66	+19	+ 9	18.33	2.78	−23	+ 5	53.34	0.46	−13	− 3	31.80	3.11	+25	− 4
7	53.69	9.38	+ 4	+10	19.38	2.63	−24	+ 1	54.58	0.46	− 2	− 5	32.99	3.28	+29	− 2
8	54.26	9.11	−10	+ 9	20.43	2.48	−19	− 2	55.83	0.47	+10	− 6	34.17	3.45	+28	+ 1
9	54.86	8.84	−20	+ 7	21.50	2.34	− 9	− 5	57.09	0.49	+20	− 5	35.34	3.62	+23	+ 3
10	55.47	8.57	−24	+ 3	22.58	2.20	+ 2	− 6	58.34	0.51	+26	− 3	36.51	3.80	+14	+ 5
11	56.10	8.31	−23	0	23.67	2.07	+13	− 6	59.60	0.54	+28	− 1	37.67	3.99	+ 3	+ 6
12	56.75	8.05	−17	− 3	24.77	1.94	+21	− 5	60.86	0.57	+26	+ 2	38.82	4.18	− 9	+ 6
13	57.42	7.79	− 6	− 5	25.87	1.82	+26	− 3	62.11	0.61	+19	+ 4	39.96	4.37	−22	+ 4
14	58.10	7.54	+ 5	− 6	26.99	1.70	+28	− 1	63.37	0.65	+10	+ 5	41.10	4.57	−31	+ 2
15	58.81	7.29	+16	− 6	28.12	1.59	+24	+ 2	64.63	0.70	− 3	+ 6	42.23	4.77	−35	− 1
16	59.53	7.04	+23	− 5	29.25	1.48	+16	+ 4	65.89	0.75	−15	+ 5	43.35	4.98	−33	− 5
17	60.27	6.79	+27	− 2	30.40	1.38	+ 5	+ 5	67.15	0.81	−27	+ 3	44.47	5.19	−24	− 8
18	61.02	6.55	+27	0	31.55	1.28	− 7	+ 6	68.40	0.88	−34	0	45.57	5.41	−10	−10
19	61.80	6.31	+21	+ 3	32.70	1.19	−21	+ 4	69.66	0.95	−36	− 3	46.67	5.63	+ 4	−10
20	62.59	6.08	+13	+ 4	33.87	1.10	−31	+ 2	70.92	1.03	−31	− 7	47.76	5.86	+18	− 7
21	63.40	5.85	0	+ 6	35.05	1.02	−37	− 1	72.17	1.11	−20	− 9	48.84	6.09	+27	− 4
22	64.22	5.63	−14	+ 5	36.23	0.94	−36	− 5	73.43	1.20	− 4	−10	49.91	6.32	+29	+ 1
23	65.06	5.41	−27	+ 4	37.42	0.87	−27	− 8	74.68	1.29	+12	− 9	50.97	6.56	+24	+ 5
24	65.92	5.19	−34	+ 1	38.61	0.81	−13	−10	75.92	1.39	+24	− 6	52.02	6.80	+13	+ 8
25	66.79	4.98	−37	− 3	39.81	0.75	+ 2	−10	77.17	1.49	+30	− 1	53.06	7.05	− 1	+ 9
26	67.68	4.77	−33	− 6	41.02	0.70	+18	− 7	78.41	1.60	+29	+ 3	54.08	7.30	−14	+ 8
27	68.58	4.57	−21	− 9	42.23	0.65	+28	− 4	79.65	1.71	+21	+ 7	55.10	7.55	−23	+ 6
28	69.49	4.37	− 5	−10	43.45	0.61	+32	+ 1	80.88	1.83	+ 8	+ 9	56.10	7.81	−26	+ 2
29	70.42	4.18	+12	− 8	44.67	0.57	+28	+ 6	82.11	1.95	− 7	+10	57.10	8.07	−22	− 1
30	71.36	3.99	+25	− 6	45.90	0.54	+16	+ 9	83.34	2.08	−18	+ 8	58.08	8.33	−12	− 4
31	72.32	3.80	+32	− 1	47.13	0.51	+ 2	+10	84.56	2.21	−24	+ 5	59.05	8.60	+ 1	− 6
32	73.29	3.62	+32	+ 4					85.78	2.35	−24	+ 1	60.01	8.87	+12	− 6

δ	sec δ	tg δ	δ	sec δ	tg δ
+88° 58′ 0″	55.451	+ 55.442	+88° 58′ 10″	55.600	+ 55.591
10	55.600	+ 55.591	20	55.750	+ 55.741

$\alpha_{1938.0} = 1^{h}\ 41^{m}\ 22^{s}.65$ $\delta_{1938.0} = +88°\ 58'\ 8''.25$

Obere Kulmination Greenwich

Nb) α Ursae minoris $2^m.12$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$1^h 43^m$	+88° 58′	in $0^s.01$	in $0''.01$	$1^h 43^m$	+88° 58′	in $0^s.01$	in $0''.01$	$1^h 43^m$	+88° 58′	in $0^s.01$	in $0''.01$	$1^h 42^m$	+88° 58′	in $0^s.01$	in $0''.01$
1	$0^s.01$	$8''.87$	+12	−6	$22^s.64$	$18''.47$	+30	−1	$30^s.23$	$30''.29$	−8	+6	$79^s.37$	$40''.51$	−33	0
2	0.96	9.15	+22	−5	23.16	18.82	+28	+2	30.15	30.66	−20	+5	78.71	40.81	−35	−3
3	1.91	9.43	+29	−2	23.66	19.18	+22	+4	30.06	31.03	−30	+3	78.03	41.10	−30	−6
4	2.84	9.71	+29	0	24.14	19.54	+13	+6	29.94	31.39	−35	−1	77.34	41.39	−20	−9
5	3.75	10.00	+26	+3	24.61	19.90	0	+6	29.81	31.76	−33	−4	76.63	41.67	−4	−10
6	4.65	10.29	+18	+5	25.06	20.26	−13	+6	29.65	32.12	−26	−7	75.90	41.95	+11	−8
7	5.54	10.58	+8	+6	25.49	20.62	−24	+4	29.47	32.48	−13	−9	75.15	42.23	+23	−5
8	6.42	10.88	−5	+6	25.90	20.99	−32	+2	29.28	32.84	+3	−9	74.39	42.50	+30	−1
9	7.28	11.18	−17	+5	26.30	21.36	−34	−2	29.06	33.20	+17	−7	73.61	42.77	+29	+3
10	8.13	11.48	−27	+3	26.68	21.73	−30	−5	28.83	33.56	+27	−3	72.82	43.03	+20	+7
11	8.97	11.79	−34	0	27.04	22.10	−20	−8	28.57	33.91	+30	+1	72.01	43.29	+8	+9
12	9.79	12.10	−33	−3	27.38	22.47	−6	−9	28.29	34.26	+25	+5	71.18	43.54	−6	+9
13	10.60	12.41	−27	−7	27.70	22.84	+9	−8	28.00	34.62	+15	+8	70.34	43.79	−18	+7
14	11.40	12.73	−16	−9	28.01	23.21	+21	−6	27.68	34.97	+1	+9	69.48	44.03	−24	+4
15	12.18	13.05	0	−9	28.30	23.58	+28	−2	27.35	35.31	−12	+8	68.60	44.27	−24	+1
16	12.95	13.37	+14	−8	28.56	23.96	+29	+2	26.99	35.66	−21	+6	67.71	44.51	−18	−3
17	13.70	13.69	+24	−5	28.81	24.33	+21	+6	26.62	36.00	−25	+2	66.80	44.74	−6	−5
18	14.44	14.02	+29	−1	29.04 29.26	24.70 25.07	+10 −4	+8 +9	26.23	36.34	−22	−1	65.88	44.96	+6	−6
19	15.17	14.35	+26	+3	29.45	25.44	−16	+7	25.81	36.68	−15	−4	64.95	45.18	+16	−5
20	15.88	14.68	+17	+7	29.63	25.82	−24	+4	25.38	37.02	−3	−6	64.00	45.39	+25	−4
21	16.57	15.02	+4	+8	29.78	26.19	−26	+1	24.93	37.35	+9	−6	63.04	45.60	+29	−1
22	17.25	15.35	−10	+8	29.92	26.56	−21	−2	24.46	37.68	+19	−5	62.07	45.81	+28	+1
23	17.91	15.69	−20	+6	30.04	26.93	−10	−5	23.97	38.01	+26	−3	61.08	46.01	+23	+3
24	18.56	16.03	−25	+3	30.14	27.31	+2	−6	23.47	38.33	+29	−1	60.08	46.20	+14	+5
25	19.19	16.37	−24	0	30.22	27.68	+13	−6	22.94	38.65	+26	+2	59.07	46.38	+3	+6
26	19.81	16.72	−17	−3	30.28	28.06	+23	−5	22.39	38.97	+21	+4	58.05	46.56	−9	+6
27	20.41	17.06	−6	−5	30.32	28.43	+29	−2	21.82	39.29	+10	+6	57.01	46.74	−21	+4
28	20.99	17.41	+7	−6	30.34	28.80	+29	0	21.24	39.60	−2	+6	55.96	46.91	−31	+2
29	21.56	17.76	+18	−5	30.34	29.17	+25	+3	20.63	39.91	−15	+5	54.90	47.08	−36	−2
30	22.11	18.11	+26	−4	30.33	29.55	+16	+5	20.01	40.21	−26	+3	53.83	47.23	−33	−5
31	22.64	18.47	+30	−1	30.29	29.92	+6	+6	19.37	40.51	−33	0	52.75	47.38	−26	−8
32					30.23	30.29	−8	+6					51.66	47.53	−12	−10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+88° 58′ 0″	55.451	+55.442	+88° 58′ 20″	55.750	+55.741	+88° 58′ 40″	56.053	+56.044
10	55.600	+55.591	30	55.901	+55.892	50	56.206	+56.197

$\alpha_{1938.0} = 1^h\ 41^m\ 22^s.65$ $\delta_{1938.0} = +88°\ 58'\ 8''.25$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Nc) Grb 750 $6^m.70$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$4^h 16^m$	$85° 23'$	$0^s.01$	$0''.01$	$4^h 16^m$	$85° 23'$	$0^s.01$	$0''.01$	$4^h 16^m$	$85° 23'$	$0^s.01$	$0''.01$	$4^h 16^m$	$85° 23'$	$0^s.01$	$0''.01$
1	37.69	30.21	+5	−4	32.36	36.96	+2	+6	25.38	38.53	0	+7	18.06	34.78	−9	+1
2	37.58	30.49	+5	−1	32.14	37.10	−1	+8	25.13	38.49	−3	+7	17.87	34.58	−9	−3
3	37.46	30.77	+5	+2	31.91	37.23	−5	+7	24.87	38.45	−6	+6	17.67	34.37	−7	−6
4	37.34	31.04	+3	+5	31.68	37.36	−8	+5	24.61	38.41	−9	+3	17.49	34.16	−3	−8
5	37.22	31.31	0	+7	31.44	37.48	−9	+2	24.35	38.35	−9	−1	17.30	33.94	+1	−8
6	37.09	31.58	−3	+7	31.20	37.59	−9	−2	24.10	38.29	−8	−4	17.12	33.72	+5	−6
7	36.96	31.84	−6	+6	30.97	37.70	−8	−6	23.84	38.23	−6	−7	16.94	33.49	+8	−3
8	36.82	32.10	−9	+4	30.72	37.81	−5	−9	23.59	38.16	−2	−9	16.77	33.26	+9	+1
9	36.68	32.36	−10	0	30.48	37.90	0	−9	23.34	38.08	+3	−8	16.60	33.03	+8	+5
10	36.54	32.61	−9	−4	30.24	37.99	+4	−8	23.08	38.00	+6	−5	16.43	32.79	+5	+8
11	36.39	32.86	−7	−7	29.99	38.08	+7	−4	22.83	37.91	+8	−1	16.27	32.55	+2	+9
12	36.24	33.10	−3	−9	29.74	38.16	+9	+1	22.59	37.82	+8	+3	16.11	32.31	−1	+8
13	36.08	33.34	+2	−9	29.50	38.23	+8	+5	22.34	37.72	+7	+6	15.96	32.06	−4	+5
14	35.92	33.57	+6	−6	29.24	38.30	+6	+8	22.09	37.61	+4	+9	15.81	31.81	−5	+2
15	35.75	33.80	+8	−2	28.99	38.36	+3	+9	21.85	37.50	+1	+9	15.67	31.56	−5	−2
16	35.58	34.03	+9	+2	28.73	38.41	0	+9	21.60	37.38	−2	+7	15.53	31.30	−4	−5
17	35.40	34.25	+8	+6	28.48	38.46	−3	+6	21.36	37.26	−4	+4	15.39	31.04	−2	−7
18	35.23	34.47	+5	+9	28.22	38.50	−5	+3	21.12	37.13	−5	+1	15.26	30.78	0	−8
19	35.04	34.68	+2	+10	27.97	38.53	−5	−1	20.88	36.99	−5	−3	15.14	30.51	+2	−7
20	34.86	34.89	−1	+8	27.71	38.56	−4	−4	20.65	36.85	−3	−6	15.01	30.24	+4	−6
21	34.67	35.09	−4	+5	27.45	38.58	−2	−7	20.42	36.71	−1	−7	14.89	29.97	+6	−3
22	34.48	35.29	−5	+1	27.19	38.60	0	−8	20.19	36.56	+1	−8	14.78	29.69	+6	0
23	34.28	35.48	−5	−2	26.94	38.61	+2	−7	19.97	36.40	+3	−7	14.67	29.42	+5	+3
24	34.08	35.66	−3	−5	26.68	38.61	+4	−6	19.74	36.24	+5	−5	14.57	29.14	+2	+6
25	33.88	35.84	−1	−7	26.42	38.61	+6	−3	19.52	36.08	+6	−2	14.47	28.86	−1	+7
26	33.67	36.02	+1	−8	26.16	38.60	+6	0	19.30	35.91	+6	+1	14.37	28.57	−4	+7
27	33.46	36.19	+3	−7	25.90	38.58	+5	+3	19.09	35.73	+4	+5	14.28	28.28	−7	+6
28	33.25	36.35	+5	−5	25.64	38.56	+3	+6	18.88	35.55	+1	+7	14.19	28.00	−9	+3
29	33.03	36.51	+6	−2	25.38	38.53	0	+7	18.67	35.36	−2	+8	14.11	27.71	−9	−1
30	32.81	36.67	+6	+1					18.46	35.17	−5	+7	14.03	27.42	−8	−5
31	32.59	36.81	+4	+4					18.26	34.98	−8	+5	13.96	27.12	−5	−8
32	32.36	36.96	+2	+6					18.06	34.78	−9	+1				

δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 23′ 20″	12.439	+ 12.399	+85° 23′ 30″	12.446	+ 12.406
30	12.446	+ 12.406	40	12.454	+ 12.414

$\alpha_{1938.0} = 4^h\ 16^m\ 16^s.53$ $\delta_{1938.0} = +85°\ 23'\ 19''.63$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Nc) Grb 750 $6^{m}.70$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$4^h 16^m$	+85° 23′	in $0^s.01$	in $0''.01$	$4^h 16^m$	+85° 23′	in $0^s.01$	in $0''.01$	$4^h 16^m$	+85° 23′	in $0^s.01$	in $0''.01$	$4^h 16^m$	+85° 23′	in $0^s.01$	in $0''.01$
1	$13^s.96$	$27''.12$	−5	−8	$14^s.22$	$17''.77$	+8	−2	$18^s.76$	$9''.99$	+7	+8	$26^s.69$	$5''.25$	−4	+5
2	13.89	26.83	−1	−9	14.31	17.48	+9	+3	18.97	9.78	+3	+9	26.98	5.17	−5	+1
3	13.83	26.53	+4	−7	14.40	17.19	+8	+6	19.19	9.57	0	+8	27.27	5.09	−4	−3
4	13.78	26.23	+7	−4	14.50	16.90	+5	+8	19.41	9.36	−3	+6	27.57	5.01	−2	−6
5	13.73	25.93	+9	0	14.60	16.61	+2	+9	19.63	9.16	−5	+3	27.87	4.94	0	−7
6	13.68	25.63	+9	+4	14.71	16.33	−1	+8	19.86	8.96	−5	−1	28.17	4.87	+3	−7
7	13.64	25.33	+7	+7	14.82	16.04	−4	+5	20.09	8.76	−3	−4	28.46	4.81	+5	−6
8	13.60	25.02	+4	+9	14.94	15.76	−5	+1	20.32	8.57	−1	−6	28.76	4.75	+6	−4
9	13.57	24.72	0	+8	15.06	15.48	−4	−2	20.55	8.38	+1	−7	29.07	4.70	+6	−1
10	13.54	24.42	−3	+6	15.18	15.21	−3	−5	20.79	8.20	+3	−7	29.37	4.65	+6	+2
11	13.52	24.11	−5	+3	15.31	14.93	−1	−7	21.03	8.02	+5	−5	29.67	4.61	+4	+5
12	13.50	23.81	−5	0	15.44	14.66	+1	−7	21.27	7.85	+6	−3	29.98	4.58	+2	+6
13	13.49	23.51	−5	−4	15.58	14.39	+3	−6	21.52	7.68	+6	0	30.28	4.55	−2	+7
14	13.49	23.20	−3	−6	15.72	14.12	+5	−5	21.77	7.51	+5	+3	30.59	4.52	−5	+7
15	13.49	22.90	−1	−7	15.87	13.85	+6	−2	22.02	7.35	+3	+5	30.90	4.50	−8	+4
16	13.49	22.59	+2	−7	16.02	13.59	+6	+1	22.27	7.19	0	+7	31.21	4.48	−9	+1
17	13.50	22.28	+4	−6	16.17	13.33	+4	+4	22.53	7.04	−3	+7	31.52	4.46	−9	−3
18	13.51	21.98	+5	−4	16.33	13.07	+2	+6	22.79	6.89	−6	+6	31.83	4.45	−8	−6
19	13.53	21.67	+6	−1	16.49	12.81	−1	+7	23.06	6.74	−9	+3	32.14	4.45	−5	−8
20	13.55	21.37	+5	+2	16.66	12.56	−5	+7	23.32	6.60	−10	−1	32.45	4.45	−1	−9
21	13.58	21.07	+3	+5	16.83	12.31	−8	+5	23.59	6.46	−9	−4	32.76	4.46	+3	−7
22	13.61	20.76	0	+7	17.01	12.06	−10	+2	23.86	6.33	−7	−7	33.08	4.47	+6	−4
23	13.65	20.46	−3	+7	17.19	11.82	−10	−2	24.13	6.20	−3	−9	33.39	4.49	+8	0
24	13.70	20.16	−6	+6	17.37	11.58	−8	−6	24.41	6.08	+1	−8	33.70	4.51	+7	+5
25	13.75	19.85	−9	+4	17.56	11.34	−5	−8	24.69	5.96	+5	−6	34.01	4.54	+5	+8
26	13.80	19.55	−10	0	17.75	11.11	−1	−9	24.97	5.85	+7	−2	34.33	4.57	+2	+9
27	*)13.86	19.25	−9	−4	17.95	10.88	+4	−7	25.25	5.74	+8	+3	34.64	4.60	−1	+8
28	13.92	18.95	−7	−7	18.14	10.65	+7	−4	25.53	5.63	+7	+6	34.96	4.64	−4	+6
29	13.99	18.66	−3	−9	18.35	10.43	+9	0	25.82	5.53	+4	+9	35.27	4.68	−5	+2
30	14.06	18.36	+2	−8	18.55	10.21	+9	+5	26.11	5.43	+1	+9	35.58	4.73	−5	−2
31	14.14	18.07	+6	−6	18.76	9.99	+7	+8	26.40	5.34	−2	+7	35.89	4.79	−3	−5
32	14.22	17.77	+8	−2					26.69	5.25	−4	+5	36.21	4.84	−1	−7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 23′ 0″	12.424	+ 12.384	+85° 23′ 10″	12.432	+ 12.391	+85° 23′ 20″	12.439	+ 12.399
10	12.432	+ 12.391	20	12.439	+ 12.399	30	12.446	+ 12.406

$\alpha_{1938.0} = 4^h\ 16^m\ 16^s.53$ $\delta_{1938.0} = +85°\ 23'\ 19''.63$

*) Tag der doppelten unteren Kulmination: Mai 27.

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Nc) Grb 750 $6^m\!.70$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$4^h\,16^m$	$+85°\,23'$	in $0^s\!.01$	in $0''\!.01$	$4^h\,16^m$	$+85°\,23'$	in $0^s\!.01$	in $0''\!.01$	$4^h\,16^m$	$+85°\,23'$	in $0^s\!.01$	in $0''\!.01$	$4^h\,16^m$	$+85°\,23'$	in $0^s\!.01$	in $0''\!.01$
1	36.21	4.84	−1	−7	45.22	8.66	+5	−6	52.59	16.27	+5	+4	56.38	26.17	−6	+5
2	36.52	4.90	+2	−7	45.49	8.85	+6	−3	52.78	16.56	+2	+6	56.43	26.50	−9	+3
3	36.83	4.97	+4	−7	45.77	9.04	+7	0	52.96	16.86	−1	+7	56.47	26.84	−10	0
4	37.14	5.04	+6	−5	46.05	9.24	+6	+3	53.14	17.16	−4	+7	56.51	27.17	−9	−4
5	37.45	5.12	+6	−2	46.32	9.45	+4	+5	53.32	17.46	−7	+5	56.54	27.50	−6	−7
6	37.76	5.20	+6	+1	46.59	9.65	+1	+7	53.49	17.76	−9	+2	56.56	27.83	−3	−9
7	38.07	5.29	+5	+4	46.85	9.87	−2	+7	53.66	18.07	−9	−2	56.59	28.17	+1	−8
8	38.38	5.38	+3	+6	47.12	10.08	−5	+6	53.82	18.37	−8	−5	56.60	28.50	+5	−5
9	38.69	5.47	0	+7	47.38	10.30	−8	+4	53.98	18.68	−5	−8	56.61	28.83	+8	−1
10	39.00	5.57	−3	+7	47.64	10.52	−9	0	54.13	18.99	−1	−8	56.62	29.16	+8	+3
11	39.31	5.67	−6	+5	47.90	10.75	−8	−3	54.28	19.31	+3	−7	56.62	29.49	+7	+6
12	39.62	5.78	−9	+2	48.15	10.98	−6	−6	54.43	19.62	+6	−4	56.62	29.82	+4	+8
13	39.93	5.89	−9	−1	48.40	11.21	−3	−8	54.57	19.94	+8	0	56.61	30.14	+1	+8
14	40.23	6.01	−8	−5	48.65	11.45	+1	−8	54.71	20.26	+8	+4	56.59	30.46	−2	+7
15	40.54	6.13	−6	−7	48.89	11.69	+4	−6	54.85	20.58	+6	+7	56.57	30.79	−4	+4
16	40.84	6.26	−2	−8	49.14	11.93	+7	−3	54.98	20.90	+3	+9	56.55	31.11	−5	0
17	41.14	6.39	+2	−8	49.38	12.18	+8	+2	55.10	21.22	−1	+8	56.52	31.43	−4	−3
18	41.44	6.52	+5	−5	49.61	12.43	+7	+5	55.22	21.54	−3	+6	56.48	31.75	−2	−6
19	41.74	6.66	+7	−1	49.85	12.69	+4	+8	55.33	21.87	−5	+3	56.44	32.07	0	−7
20	42.04	6.80	+7	+3	50.08	12.94	+1	+8	55.44	22.20	−5	−1	56.40	32.38	+3	−7
21	42.34	6.95	+6	+6	50.31	13.21	−2	+7	55.54	22.52	−4	−4	56.35	32.70	+5	−6
22	42.63	7.10	+3	+9	50.54	13.47	−4	+5	55.64	22.85	−2	−6	56.30	33.01	+6	−3
23	42.93	7.26	0	+8	50.76	13.74	−5	+1	55.74	23.18	+1	−7	56.24	33.32	+6	−1
24	43.22	7.42	−3	+6	50.98	14.01	−5	−2	55.83	23.51	+3	−7	56.17	33.63	+6	+2
25	43.51	7.59	−5	+3	51.19	14.28	−3	−5	55.92 56.00	23.84 24.17	+5 +6	−5 −3	56.10	33.94	+4	+4
26	43.80	7.76	−5	0	51.40	14.56	−1	−7	56.07	24.51	+6	0	56.03	34.24	+1	+6
27	44.09	7.93	−4	−4	51.61	14.84	+2	−7	56.15	24.84	+5	+3	55.95	34.54	−2	+7
28	44.37	8.11	−2	−6	51.81	15.12	+4	−6	56.21	25.17	+3	+5	55.86	34.84	−5	+6
29	44.66	8.29	0	−7	52.01	15.40	+6	−4	56.27	25.50	0	+7	55.77	35.13	−8	+4
30	44.94	8.47	+3	−7	52.21	15.69	+6	−2	56.33	25.84	−3	+7	55.68	35.42	−10	+1
31	45.22	8.66	+5	−6	52.40	15.97	+6	+1	56.38	26.17	−6	+5	55.58	35.71	−10	−3
32					52.59	16.27	+5	+4					55.48	36.00	−8	−6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+85° 23′ 0″	12.424	+ 12.384	+85° 23′ 20″	12.439	+ 12.399	+85° 23′ 30″	12.446	+ 12.406
10	12.432	+ 12.391	30	12.446	+ 12.406	40	12.454	+ 12.414

$\alpha_{1938.0} = 4^h\ 16^m\ 16^s\!.53$ $\delta_{1938.0} = +85°\ 23'\ 19''\!.63$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Nd) 51 Hev. Cephei $5^m.26$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$7^h\ 12^m$	+87° 8′	in $0^s.01$	in $0''.01$	$7^h\ 12^m$	+87° 8′	in $0^s.01$	in $0''.01$	$7^h\ 12^m$	+87° 8′	in $0^s.01$	in $0''.01$	$7^h\ 12^m$	+87° 9′	in $0^s.01$	in $0''.01$
1	$44^s.71$	$42''.66$	−1	−7	$45^s.21$	$52''.56$	+8	+4	$38^s.67$	$59''.68$	+6	+6	$26^s.65$	$3''.21$	−10	+7
2	44.86	42.96	+2	−6	45.08	52.85	+5	+7	38.34	59.88	+3	+8	26.23	3.23	−13	+3
3	45.01	43.26	+5	−4	44.94	53.15	+1	+9	38.00	60.07	−2	+9	25.81	3.24	−13	−1
4	45.14	43.56	+7	−2	44.79	53.44	−4	+9	37.66	60.25	−7	+8	25.38	3.25	−10	−5
5	45.27	43.87	+8	+2	44.64	53.73	−9	+8	37.32	60.43	−11	+6	24.96	3.25	−6	−8
6	45.39	44.18	+6	+5	44.47	54.02	−13	+5	36.97	60.61	−13	+2	24.54	3.25	+1	−9
7	45.50	44.49	+3	+8	44.30	54.30	−14	0	36.61	60.78	−13	−2	24.12	3.24	+7	−7
8	45.60	44.80	−2	+10	44.12	54.58	−13	−4	36.25	60.95	−9	−6	23.70	3.22	+12	−5
9	45.69 45.78	45.11 45.43	−7 −12	+9 +7	43.93	54.86	−8	−7	35.88	61.11	−4	−8	23.28	3.20	+14	−1
10	45.85	45.74	−15	+3	43.74	55.13	−2	−9	35.51	61.26	+3	−8	22.86	3.17	+13	+3
11	45.91	46.05	−14	−1	43.54	55.41	+5	−8	35.14	61.41	+8	−6	22.44	3.14	+10	+5
12	45.97	46.36	−11	−5	43.33	55.68	+10	−5	34.76	61.56	+12	−3	22.02	3.10	+5	+7
13	46.02	46.68	−5	−8	43.11	55.94	+13	−2	34.38	61.70	+13	0	21.61	3.05	0	+7
14	46.05	46.99	+2	−9	42.88	56.21	+14	+2	34.00	61.83	+12	+4	21.20	3.00	−5	+5
15	46.08	47.31	+8	−7	42.65	56.47	+11	+5	33.61	61.96	+8	+6	20.78	2.94	−8	+2
16	46.10	47.62	+13	−4	42.41	56.73	+7	+7	33.22	62.08	+3	+7	20.37	2.88	−9	−1
17	46.11	47.94	+15	0	42.16	56.98	+2	+7	32.83	62.19	−2	+6	19.96	2.81	−8	−4
18	46.11	48.25	+14	+3	41.91	57.23	−3	+6	32.43	62.30	−6	+4	19.56	2.74	−6	−6
19	46.11	48.57	+11	+6	41.65	57.47	−7	+3	32.03	62.40	−8	+1	19.15	2.65	−3	−7
20	46.09	48.88	+5	+7	41.38	57.71	−9	0	31.63	62.50	−9	−2	18.75	2.57	0	−7
21	46.07	49.19	0	+6	41.10	57.95	−8	−4	31.22	62.59	−8	−5	18.36	2.47	+4	−6
22	46.04	49.51	−5	+4	40.82	58.18	−7	−6	30.81	62.68	−5	−7	17.96	2.37	+7	−4
23	45.99	49.82	−8	+1	40.54	58.41	−4	−7	30.40	62.76	−2	−7	17.57	2.27	+8	0
24	45.94	50.12	−9	−2	40.24	58.63	0	−8	29.99	62.83	+2	−7	17.18	2.16	+8	+3
25	45.88	50.43	−8	−5	39.94	58.85	+4	−6	29.58	62.90	+6	−5	16.79	2.04	+6	+6
26	45.81	50.74	−6	−7	39.63	59.07	+7	−4	29.17	62.96	+8	−2	16.41	1.92	+2	+8
27	45.73	51.05	−2	−7	39.31	59.28	+8	−1	28.75	63.02	+9	+1	16.03	1.79	−3	+9
28	45.64	51.35	+2	−7	38.99	59.48	+8	+3	28.33	63.07	+8	+5	15.65	1.66	−8	+8
29	45.55	51.66	+5	−6	38.67	59.68	+6	+6	27.91	63.11	+5	+7	15.28	1.52	−12	+5
30	45.44	51.96	+8	−3					27.49	63.15	0	+9	14.91	1.38	−13	+1
31	45.33	52.26	+9	0					27.07	63.18	−5	+9	14.55	1.23	−12	−3
32	45.21	52.56	+8	+4					26.65	63.21	−10	+7				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 8′ 40″	20.073	+20.048	+87° 8′ 50″	20.092	+20.068	+87° 9′ 0″	20.112	+20.087
50	20.092	+20.068	60	20.112	+20.087	10	20.132	+20.107

$\alpha_{1938.0} = 7^h\ 12^m\ 10^s.43$ $\delta_{1938.0} = +87^\circ\ 8'\ 52''.17$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Nd) 51 Hev. Cephei $5^m\!.26$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in	
	$7^h\,12^m$	$+87°\,8'$	$0^s\!.01$	$0''\!.01$	$7^h\,12^m$	$+87°\,8'$	$0^s\!.01$	$0''\!.01$	$7^h\,12^m$	$+87°\,8'$	$0^s\!.01$	$0''\!.01$	$7^h\,12^m$	$+87°\,8'$	$0^s\!.01$	$0''\!.01$
1	$14^s\!.55$	$61''\!.23$	−12	−3	$5^s\!.85$	$54''\!.44$	+ 9	−7	$3^s\!.53$	$45''\!.25$	+15	+2	$8^s\!.02$	$35''\!.40$	− 1	+6
2	14.19	61.08	− 8	−7	5.67	54.17	+14	−4	3.56	44.93	+12	+5	8.27	35.10	− 5	+3
3	13.84	60.92	− 2	−8	5.49	53.89	+15	0	3.61	44.60	+ 7	+7	8.53	34.80	− 7	0
4	13.49	60.76	+ 5	−8	5.32	53.61	+14	+3	3.66	44.28	+ 2	+7	8.79	34.51	− 8	−3
5	13.14	60.59	+10	−6	5.16	53.32	+10	+6	3.72	43.95	− 3	+5	9.06	34.22	− 6	−6
6	12.80	60.42	+14	−3	5.00	53.03	+ 5	+7	3.79	43.62	− 7	+2	9.34	33.92	− 3	−7
7	12.46	60.24	+14	+1	4.86	52.74	0	+6	3.86	43.30	− 8	−1	9.62	33.64	0	−8
8	12.13	60.06	+12	+5	4.72	52.45	− 5	+4	3.94	42.97	− 7	−4	9.91	33.35	+ 4	−7
9	11.80	59.87	+ 7	+6	4.58	52.15	− 7	+1	4.03	42.65	− 5	−6	10.21	33.07	+ 7	−5
10	11.48	59.68	+ 2	+7	4.46	51.85	− 8	−2	*)4.12	42.33	− 2	−7	10.51	32.79	+ 9	−2
11	11.16	59.48	− 3	+6	4.34	51.55	− 7	−5	4.22	42.00	+ 1	−7	10.81	32.51	+ 9	+1
12	10.85	59.28	− 7	+3	4.23	51.25	− 5	−6	4.33	41.68	+ 4	−6	11.13	32.23	+ 7	+4
13	10.54	59.08	− 9	0	4.12	50.95	− 2	−7	4.45	41.36	+ 7	−4	11.45	31.96	+ 4	+7
14	10.24	58.87	− 9	−3	4.03	50.65	+ 2	−7	4.58	41.03	+ 8	−1	11.77	31.69	0	+9
15	9.94	58.66	− 7	−5	3.94	50.34	+ 5	−5	4.71	40.71	+ 8	+2	12.10	31.42	− 5	+9
16	9.65	58.44	− 4	−7	3.86	50.03	+ 7	−3	4.85	40.39	+ 6	+5	12.44	31.16	−10	+7
17	9.37	58.22	− 1	−7	3.78	49.72	+ 8	0	5.00	40.07	+ 2	+8	12.78	30.89	−13	+4
18	9.09	57.99	+ 2	−6	3.72	49.41	+ 7	+4	5.15	39.75	− 3	+9	13.12	30.63	−15	0
19	8.82	57.76	+ 6	−5	3.66	49.09	+ 4	+7	5.31	39.43	− 8	+9	13.48	30.38	−13	−3
20	8.55	57.53	+ 8	−2	3.61	48.78	0	+9	5.48	39.11	−12	+6	13.83	30.12	− 8	−7
21	8.29	57.29	+ 8	+2	3.56	48.46	− 5	+9	5.66	38.79	−15	+3	14.19	29.87	− 2	−8
22	8.04	57.05	+ 6	+5	3.53	48.15	−10	+8	5.84	38.48	−15	−1	14.56	29.62	+ 4	−7
23	7.79	56.80	+ 3	+8	3.50	47.83	−14	+5	6.02	38.17	−11	−5	14.93	29.37	+10	−5
24	7.55	56.56	− 2	+9	3.47	47.51	−15	+1	6.22	37.85	− 6	−7	15.31	29.13	+12	−1
25	7.31	56.30	− 7	+9	3.46	47.19	−13	−3	6.42	37.54	+ 1	−8	15.69	28.89	+13	+3
26	7.08	56.05	−12	+7	3.45	46.87	− 8	−7	6.63	37.23	+ 8	−6	16.08	28.65	+10	+6
27	6.86	55.79	−14	+3	3.45	46.54	− 2	−8	6.85	36.92	+12	−4	16.47	28.42	+ 5	+7
28	6.64	55.53	−14	−1	3.46	46.22	+ 5	−8	7.07	36.61	+14	0	16.86	28.19	0	+7
29	6.43	55.26	−10	−5	3.47	45.90	+11	−6	7.30	36.31	+13	+4	17.26	27.97	− 4	+5
30	6.23	54.99	− 5	−8	3.50	45.57	+14	−2	7.53	36.00	+ 9	+6	17.66	27.74	− 7	+2
31	6.04	54.72	+ 2	−9	3.53	45.25	+15	+2	7.77	35.70	+ 4	+7	18.07	27.53	− 8	−2
32	5.85	54.44	+ 9	−7					8.02	35.40	− 1	+6	18.48	27.31	− 7	−5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+87° 8′ 20″	20.034	+ 20.009	+87° 8′ 40″	20.073	+ 20.048	+87° 9′ 0″	20.112	+ 20.087
30	20.053	+ 20.028	50	20.092	+ 20.068	10	20.132	+ 20.107

$\alpha_{1938.0} = 7^h\ 12^m\ 10^s\!.43$ $\delta_{1938.0} = +87°\ 8'\ 52''\!.17$

*) Tag der doppelten unteren Kulmination: Juli 10.

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Nd) 51 Hev. Cephei $5^{m}.26$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in		AR.	Dekl.	☾ Glieder in	
	$7^{h}\ 12^{m}$	$+87°\ 8'$	0.01^{s}	$0.01''$	$7^{h}\ 12^{m}$	$+87°\ 8'$	0.01^{s}	$0.01''$	$7^{h}\ 12^{m}$	$+87°\ 8'$	0.01^{s}	$0.01''$	$7^{h}\ 13^{m}$	$+87°\ 8'$	0.01^{s}	$0.01''$
1	18.48^{s}	$27.31''$	−7	−5	32.43^{s}	$22.66''$	+1	−8	48.17^{s}	$22.16''$	+9	0	1.59^{s}	$26.18''$	+2	+7
2	18.90	27.10	−4	−7	32.94	22.57	+5	−7	48.66	22.22	+8	+4	1.97	26.39	−3	+9
3	19.32	26.89	−1	−8	33.44	22.49	+7	−4	49.15	22.29	+5	+7	2.34	26.60	−8	+8
4	19.75	26.69	+3	−7	33.95	22.41	+9	−2	49.64	22.36	+1	+8	2.71	26.82	−12	+6
5	20.18	26.49	+6	−6	34.46	22.33	+9	+2	50.13	22.44	−4	+9	3.07	27.04	−14	+3
6	20.61	26.29	+8	−3	34.96	22.26	+7	+5	50.62	22.52	−9	+7	3.42	27.26	−14	−1
7	21.05	26.10	+9	0	35.47	22.20	+4	+7	51.10	22.61	−12	+5	3.77	27.49	−10	−5
8	21.49	25.91	+8	+3	35.98	22.14	−1	+9	51.58	22.70	−14	+1	4.11	27.72	−5	−7
9	21.93	25.72	+6	+6	36.49	22.08	−6	+8	52.06	22.80	−12	−3	4.45	27.96	+2	−8
10	22.38	25.54	+2	+8	37.00	22.03	−10	+6	52.53	22.91	−8	−6	4.78	28.19	+8	−6
11	22.83	25.36	−3	+9	37.51	21.99	−13	+3	53.00	23.02	−2	−8	5.10	28.44	+12	−3
12	23.28	25.18	−8	+8	38.02	21.95	−13	−1	53.47	23.13	+5	−7	5.42	28.68	+14	0
13	23.74	25.01	−12	+5	38.53	21.91	−11	−5	53.94	23.25	+10	−5	5.73	28.93	+13	+4
14	24.20	24.84	−14	+2	39.04	21.88	−6	−7	54.40	23.38	+13	−2	6.03	29.19	+9	+6
15	24.67	24.68	−13	−2	39.55	21.85	0	−8	54.86	23.50	+13	+2	6.33	29.44	+4	+7
16	25.13	24.52	−10	−5	40.07	21.83	+6	−7	55.31	23.64	+10	+5	6.62	29.70	−1	+6
17	25.60	24.37	−4	−7	40.58	21.81	+10	−4	55.76	23.78	+6	+7	6.90	29.97	−6	+3
18	26.08	24.22	+2	−7	41.09	21.80	+12	0	56.21	23.92	+1	+7	7.17	30.23	−8	0
19	26.55	24.07	+8	−6	41.60	21.79	+12	+3	56.65	24.06	−4	+5	7.44	30.50	−8	−3
20	27.03	23.93	+11	−2	42.11	21.79	+9	+6	57.09	24.22	−7	+2	7.70	30.77	−6	−5
21	27.51	23.79	+12	+1	42.62	21.79	+4	+7	57.52	24.37	−8	−1	7.95	31.04	−3	−7
22	27.99	23.66	+11	+5	43.13	21.80	−1	+6	57.95	24.53	−8	−4	8.19	31.32	+1	−8
23	28.48	23.53	+7	+7	43.64	21.81	−6	+4	58.37	24.70	−5	−6	8.43	31.60	+4	−7
24	28.97	23.41	+2	+7	44.15	21.83	−8	+1	58.79	24.87	−2	−7	8.66	31.88	+7	−5
25	29.46	23.29	−3	+6	44.66	21.85	−9	−2	59.21	25.04	+1	−7	8.88	32.17	+8	−2
26	29.95	23.17	−6	+3	45.17	21.88	−7	−5	59.62	25.22	+5	−6	9.09	32.46	+8	+1
27	30.44	23.06	−8	0	45.67	21.91	−4	−7	60.02	25.40	+7	−4	9.29	32.75	+7	+4
28	30.94	22.96	−8	−3	46.17	21.95	−1	−8	60.42	25.59	+9	−1	9.49	33.04	+4	+7
29	31.43	22.85	−6	−6	46.67	21.99	+3	−7	60.82	25.79	+8	+2	9.68	33.34	−1	+8
30	31.93	22.76	−3	−8	47.17	22.04	+6	−6	61.21	25.98	+6	+5	9.86	33.63	−6	+9
31	32.43	22.66	+1	−8	47.67	22.10	+8	−3	61.59	26.18	+2	+7	10.03	33.94	−11	+7
32					48.17	22.16	+9	0					10.19	34.24	−14	+5

δ	$\sec\delta$	$\operatorname{tg}\delta$	δ	$\sec\delta$	$\operatorname{tg}\delta$
$+87°\ 8'\ 20''$	20.034	+20.009	$+87°\ 8'\ 30''$	20.053	+20.028
30	20.053	+20.028	40	20.073	+20.048

$\alpha_{1938.0} = 7^{h}\ 12^{m}\ 10^{s}.43$ $\delta_{1938.0} = +87°\ 8'\ 52''.17$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Ne) 1 Hev. Draconis $4^m.58$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$9^h 28^m$	+81° 35′	in $0.^s01$	$0.''01$	$9^h 28^m$	+81° 35′	in $0.^s01$	$0.''01$	$9^h 28^m$	+81° 36′	in $0.^s01$	$0.''01$	$9^h 28^m$	+81° 36′	in $0.^s01$	$0.''01$
1	$32.^s50$	$48.''89$	−2	−6	$35.^s38$	$56.''23$	+3	−3	$35.^s56$	$4.''91$	+4	+2	$33.^s19$	$12.''78$	−2	+9
2	32.63	49.07	−1	−6	35.43	56.51	+4	0	35.52	5.21	+3	+6	33.08	12.97	−4	+8
3	32.76	49.24	+1	−6	35.48	56.80	+3	+4	35.48	5.50	+1	+8	32.97	13.16	−5	+4
4	32.89	49.43	+2	−4	35.52	57.09	+2	+7	35.44	5.79	−1	+10	32.85	13.35	−5	0
5	33.01	49.62	+3	−1	35.56	57.39	0	+9	35.39	6.08	−3	+9	32.74	13.53	−3	−4
6	33.13	49.81	+3	+2	35.60	57.68	−2	+10	35.34	6.37	−4	+6	32.62	13.71	−1	−7
7	33.25	50.01	+3	+6	35.63	57.98	−4	+8	35.29	6.65	−5	+3	32.50	13.88	+1	−9
8	33.37	50.21	+1	+8	35.66	58.27	−5	+5	35.24	6.93	−4	−2	32.38	14.05	+3	−8
9	33.48	50.42	−1	+10	35.69	58.57	−5	+1	35.18	7.21	−3	−5	32.26	14.21	+5	−6
10	33.59	50.63	−3	+10	35.71	58.87	−4	−3	35.12	7.49	−1	−8	32.14	14.36	+5	−2
11	33.70	50.85	−4	+8	35.73	59.17	−2	−7	35.05	7.77	+2	−8	32.02	14.51	+5	+1
12	33.81	51.07	−5	+4	35.75 35.77	59.47 59.78	0 +3	−9 −8	34.99	8.04	+4	−7	31.90	14.66	+3	+4
13	33.91	51.29	−5	−1	35.78	60.08	+5	−6	34.92	8.31	+5	−4	31.77	14.80	+1	+5
14	34.01	51.52	−3	−5	35.79	60.38	+5	−3	34.85	8.58	+5	−1	31.64	14.93	−1	+6
15	34.11	51.75	−1	−8	35.80	60.69	+5	0	34.78	8.84	+4	+2	31.52	15.06	−2	+5
16	34.21	51.99	+2	−9	35.80	60.99	+4	+3	34.70	9.10	+2	+5	31.39	15.19	−3	+2
17	34.30	52.23	+4	−8	35.80	61.30	+2	+5	34.62	9.36	0	+6	31.26	15.31	−4	0
18	34.39	52.47	+5	−6	35.80	61.60	0	+6	34.54	9.61	−1	+5	31.13	15.43	−4	−3
19	34.48	52.72	+6	−2	35.79	61.91	−2	+5	34.45	9.86	−3	+4	31.00	15.53	−3	−5
20	34.57	52.97	+5	+1	35.78	62.21	−3	+3	34.37	10.11	−4	+1	30.87	15.64	−1	−6
21	34.65	53.22	+3	+4	35.77	62.51	−4	0	34.28	10.35	−4	−1	30.74	15.73	0	−6
22	34.73	53.48	+1	+5	35.75	62.81	−4	−3	34.19	10.59	−3	−4	30.61	15.82	+2	−5
23	34.81	53.74	−1	+5	35.73	63.12	−3	−5	34.10	10.83	−2	−6	30.47	15.91	+3	−3
24	34.88	54.01	−3	+4	35.71	63.42	−2	−6	34.00	11.06	−1	−6	30.34	15.99	+3	0
25	34.95	54.27	−3	+2	35.69	63.72	0	−6	33.91	11.29	+1	−6	30.20	16.06	+3	+3
26	35.02	54.55	−4	−1	35.66	64.02	+2	−6	33.81	11.52	+2	−5	30.06	16.13	+2	+7
27	35.09	54.82	−3	−3	35.63	64.32	+3	−4	33.71	11.74	+3	−2	29.93	16.19	+1	+9
28	35.15	55.10	−2	−5	35.60	64.62	+4	−1	33.61	11.96	+4	+1	29.79	16.25	−1	+10
29	35.21	55.38	−1	−6	35.56	64.91	+4	+2	33.51	12.17	+3	+4	29.66	16.31	−3	+9
30	35.27	55.66	0	−6					33.40	12.38	+2	+7	29.52	16.35	−4	+6
31	35.33	55.94	+2	−5					33.30	12.58	0	+9	29.38	16.39	−5	+2
32	35.38	56.23	+3	−3					33.19	12.78	−2	+9				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 35′ 40″	6.841	+6.767	+81° 36′ 0″	6.845	+6.772	+81° 36′ 10″	6.848	+6.774
50	6.843	+6.770	10	6.848	+6.774	20	6.850	+6.777

$\alpha_{1938.0} = 9^h\ 28^m\ 24.^s51$ $\delta_{1938.0} = +81°\ 36'\ 10.''68$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Ne) I Hev. Draconis $4^m.58$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$9^h 28^m$	81° 36′	$0^s.01$	0″.01	$9^h 28^m$	81° 36′	$0^s.01$	0″.01	$9^h 28^m$	81° 35′	$0^s.01$	0″.01	$9^h 28^m$	81° 35′	$0^s.01$	0″.01
	s	″			s	″			s	″			s	″		
1	29.38	16.39	−5	+2	25.34	14.86	+1	−9	22.50	68.79	+6	−4	21.41	59.35	+1	+5
2	29.25	16.43	−4	−3	25.22	14.73	+4	−8	22.43	68.52	+5	0	21.41	59.01	−1	+5
3	29.11	16.46	−2	−6	25.11	14.59	+5	−6	22.36	68.26	+4	+3	21.41	58.68	−3	+3
4	28.97	16.48	0	−9	24.99	14.44	+5	−2	22.30	67.98	+2	+5	21.41	58.34	−3	0
5	28.84	16.50	+3	−9	24.88	14.29	+5	+1	22.24	67.71	0	+5	21.42	58.00	−3	−3
6	28.70	16.51	+4	−7	24.77	14.13	+3	+4	22.18	67.43	−2	+4	21.43	57.66	−2	−5
7	28.56	16.52	+5	−4	24.66	13.97	+1	+5	22.13	67.15	−3	+2	21.44	57.31	−1	−7
8	28.43	16.52	+5	0	24.55	13.80	−1	+5	22.07	66.87	−3	−1	21.46	56.97	0	−7
9	28.29	16.51	+4	+3	24.45	13.63	−3	+3	22.02	66.58	−3	−3	21.47	56.63	+1	−6
10	28.16	16.50	+2	+5	24.34	13.45	−3	+1	21.97	66.29	−2	−5	21.49	56.29	+3	−5
11	28.02	16.49	0	+6	24.24	13.27	−4	−1	21.92	66.00	−1	−6	21.51	55.94	+3	−2
12	27.89	16.47	−2	+5	24.13	13.09	−3	−4	21.88	65.71	0	−6	21.53	55.60	+3	+1
13	27.75	16.44	−3	+3	24.03	12.90	−2	−6	21.83	65.41	+2	−6	21.55	55.25	+3	+4
14	27.62	16.41	−4	+1	23.93	12.71	−1	−6	21.79	65.11	+3	−4	*)21.58	54.91	+2	+7
15	27.48	16.37	−4	−2	23.83	12.51	+1	−6	21.75	64.81	+3	−1	21.61	54.56	0	+9
16	27.35	16.32	−3	−4	23.73	12.31	+2	−5	21.71	64.50	+3	+2	21.64	54.22	−2	+10
17	27.22	16.27	−2	−6	23.64	12.10	+3	−2	21.68	64.20	+2	+6	21.68	53.87	−4	+8
18	27.08	16.21	0	−6	23.54	11.89	+3	+1	21.65	63.88	+1	+8	21.71	53.52	−5	+5
19	26.95	16.15	+1	−6	23.45	11.68	+3	+4	21.62	63.57	−1	+10	21.75	53.18	−5	+1
20	26.82	16.08	+2	−4	23.36	11.46	+2	+7	21.59	63.26	−3	+10	21.79	52.83	−4	−3
21	26.69	16.01	+3	−1	23.27	11.24	0	+10	21.56	62.94	−5	+8	21.83	52.48	−2	−6
22	26.56	15.93	+3	+2	23.19	11.01	−2	+10	21.53	62.62	−6	+4	21.88	52.14	0	−8
23	26.44	15.85	+3	+6	23.10	10.78	−4	+9	21.51	62.31	−5	0	21.92	51.79	+3	−7
24	26.31	15.76	+1	+8	23.02	10.54	−5	+6	21.49	61.98	−3	−4	21.97	51.45	+4	−5
25	26.18	15.67	−1	+10	22.94	10.30	−5	+2	21.47	61.66	−1	−7	22.02	51.10	+5	−2
26	26.06	15.57	−3	+10	22.86	10.06	−4	−3	21.46	61.33	+1	−8	22.07	50.76	+5	+1
27	25.94	15.46	−4	+8	22.78	9.81	−2	−6	21.44	61.00	+4	−7	22.13	50.41	+3	+4
28	25.82	15.35	−5	+4	22.71	9.56	0	−8	21.43	60.68	+5	−5	22.19	50.07	+1	+5
29	25.69	15.24	−5	0	22.64	9.31	+3	−9	21.42	60.35	+5	−1	22.25	49.73	0	+5
30	25.57	15.12	−3	−5	22.57	9.05	+5	−7	21.42	60.01	+4	+2	22.31	49.38	−2	+4
31	25.46	14.99	−1	−8	22.50	8.79	+6	−4	21.41	59.68	+3	+4	22.37	49.04	−3	+1
32	25.34	14.86	+1	−9					21.41	59.35	+1	+5	22.43	48.71	−3	−1

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 35′ 40″	6.841	+6.767	+81° 36′ 0″	6.845	+6.772	+81° 36′ 10″	6.848	+6.774
50	6.843	+6.770	10	6.848	+6.774	20	6.850	+6.777

$\alpha_{1938.0} = 9^h\ 28^m\ 24^s.51$ $\delta_{1938.0} = +81°\ 36'\ 10''.68$

*) Tag der doppelten unteren Kulmination: Aug. 14.

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Ne) 1 Hev. Draconis $4^{m}.58$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$9^h\,28^m$	81° 35′	$0\overset{s}{.}01$	$0\overset{''}{.}01$	$9^h\,28^m$	81° 35′	$0\overset{s}{.}01$	$0\overset{''}{.}01$	$9^h\,28^m$	81° 35′	$0\overset{s}{.}01$	$0\overset{''}{.}01$	$9^h\,28^m$	81° 35′	$0\overset{s}{.}01$	$0\overset{''}{.}01$
	s	"			s	"			s	"			s	"		
1	22.43	48.71	−3	−1	25.30	39.23	−1	−7	29.78	32.21	+3	−3	34.84	29.72	+2	+6
2	22.50	48.37	−3	−4	25.42	38.95	0	−7	29.94	32.05	+3	0	35.01	29.72	+1	+8
3	22.57	48.03	−2	−6	25.55	38.67	+2	−6	30.11	31.90	+3	+4	35.18	29.73	−1	+10
4	22.64	47.69	0	−7	25.68	38.39	+3	−5	30.27	31.75	+2	+7	35.35	29.74	−3	+9
5	22.71	47.35	+1	−7	25.81	38.12	+4	−2	30.44	31.60	0	+9	35.52	29.76	−4	+7
6	22.79	47.01	+2	−6	25.94	37.85	+4	+2	30.60	31.46	−2	+9	35.68	29.79	−5	+4
7	22.87	46.68	+3	−3	26.07	37.59	+3	+5	30.77	31.33	−3	+8	35.85	29.82	−5	0
8	22.95	46.35	+3	−1	26.21	37.33	+1	+7	30.94	31.20	−5	+6	36.01	29.86	−3	−4
9	23.03	46.02	+3	+3	26.34	37.07	0	+9	31.11	31.08	−5	+2	36.18	29.90	−1	−7
10	23.11	45.69	+2	+6	26.48	36.81	−2	+9	31.27	30.96	−4	−2	36.34	29.95	+2	−8
11	23.19	45.36	+1	+8	26.61	36.56	−4	+7	31.44	30.85	−2	−6	36.50	30.01	+4	−7
12	23.28	45.03	−1	+9	26.75	36.31	−5	+4	31.61	30.74	0	−8	36.66	30.07	+5	−5
13	23.37	44.71	−3	+8	26.89	36.07	−5	0	31.78	30.64	+2	−8	36.82	30.14	+5	−1
14	23.46	44.39	−4	+6	27.03	35.83	−3	−4	31.95	30.54	+4	−6	36.98	30.21	+4	+2
15	23.55	44.07	−5	+3	27.18	35.59	−1	−6	32.12	30.45	+5	−3	37.13	30.28	+3	+4
16	23.65	43.75	−4	−1	27.32	35.36	+1	−8	32.29	30.36	+5	0	37.29	30.37	+1	+5
17	23.75	43.43	−3	−5	27.46	35.13	+3	−7	32.46	30.28	+3	+3	37.44	30.46	−1	+5
18	23.85	43.12	−1	−7	27.61	34.91	+4	−5	32.63	30.20	+2	+5	37.60	30.55	−3	+3
19	23.95	42.80	+2	−7	27.76	34.69	+5	−1	32.80	30.13	0	+6	37.75	30.65	−3	0
20	24.05	42.49	+4	−6	27.91	34.47	+4	+2	32.97	30.07	−2	+5	37.90	30.76	−3	−2
21	24.15	42.18	+5	−3	28.06	34.26	+3	+4	33.14	30.01	−3	+2	38.05	30.87	−3	−5
22	24.26	41.88	+5	0	28.21	34.05	+1	+6	33.31	29.95	−4	0	38.20	30.99	−1	−6
23	24.37	41.57	+4	+3	28.36	33.85	−1	+5	33.48	29.90	−3	−3	38.35	31.11	0	−7
24	24.48	41.27	+2	+5	28.51	33.65	−3	+4	33.65	29.86	−2	−5	38.50	31.24	+1	−6
25	24.59	40.97	0	+6	28.67	33.46	−3	+1	33.82	29.82	−1	−7	38.64	31.38	+2	−5
26	24.70	40.67	−2	+5	28.82	33.26	−3	−1	33.99	29.79	0	−7	38.78	31.52	+3	−2
27	24.82	40.38	−3	+3	28.98	33.08	−3	−4	34.16	29.76	+2	−6	38.92	31.66	+3	+1
28	24.94	40.09	−4	0	29.14	32.90	−2	−6	34.33	29.74	+3	−4	39.06	31.81	+3	+4
29	25.06	39.80	−3	−3	29.29	32.72	0	−7	34.50	29.73	+3	−1	39.20	31.97	+1	+7
30	25.18	39.51	−2	−5	29.45	32.54	+1	−7	34.67	29.72	+3	+2	39.34	32.13	0	+9
31	25.30	39.23	−1	−7	29.62	32.38	+2	−5	34.84	29.72	+2	+6	39.47	32.29	−2	+10
32					29.78	32.21	+3	−3					39.60	32.46	−4	+9

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+81° 35′ 20″	6.836	+6.763	+81° 35′ 30″	6.839	+6.765	+81° 35′ 40″	6.841	+6.767
30	6.839	+6.765	40	6.841	+6.767	50	6.843	+6.770

$\alpha_{1938.0} = 9^h\ 28^m\ 24\overset{s}{.}51$ $\delta_{1938.0} = +81°\ 36'\ 10\overset{''}{.}68$

N f) 30 Hev. Camelopardalis $5^m.34$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$10^h 23^m$	82° 52′	$0^s.01$	$0''.01$	$10^h 23^m$	82° 52′	$0^s.01$	$0''.01$	$10^h 23^m$	82° 52′	$0^s.01$	$0''.01$	$10^h 23^m$	82° 52′	$0^s.01$	$0''.01$
1	47.97	7.25	−3	−4	52.24	13.13	+3	−4	53.58	21.65	+4	+1	51.87	30.65	−1	+9
2	48.14	7.36	−1	−5	52.34	13.39	+4	−1	53.58	21.96	+4	+4	51.77	30.90	−3	+9
3	48.31	7.47	0	−5	52.43	13.66	+4	+2	53.57	22.27	+2	+7	51.67	31.14	−5	+6
4	48.48	7.60	+2	−5	52.52	13.92	+3	+6	53.56	22.58	0	+9	51.56	31.39	−5	+2
5	48.65	7.72	+3	−3	52.60	14.20	+1	+8	53.54	22.89	−2	+9	51.45	31.62	−4	−3
6	48.81	7.86	+4	0	52.68	14.47	−1	+10	53.52	23.20	−4	+8	51.34	31.86	−2	−6
7	48.97	8.00	+4	+4	52.76	14.75	−3	+9	53.50	23.51	−5	+4	51.22	32.09	0	−8
8	49.13	8.15	+3	+7	52.83	15.02	−5	+7	53.47	23.82	−5	0	51.11	32.31	+3	−9
9	49.29	8.30	+1	+10	52.90	15.31	−6	+3	53.44	24.12	−4	−4	50.99	32.54	+4	−7
10	49.44	8.46	−2	+10	52.97	15.59	−5	−1	53.41	24.43	−2	−7	50.87	32.75	+5	−4
11	49.59	8.62	−4	+9	53.03	15.88	−3	−5	53.37	24.73	+1	−9	50.74	32.96	+5	−1
12	49.74	8.79	−5	+6	53.09	16.17	−1	−8	53.33	25.03	+3	−8	50.62	33.17	+4	+2
13	49.89	8.96	−5	+1	53.15	16.46	+2	−9	53.29	25.34	+5	−6	50.49	33.38	+2	+4
14	50.04	9.14	−4	−3	53.20	16.75	+4	−8	53.24	25.64	+6	−3	50.36	33.57	0	+5
15	50.19	9.32	−2	−7	53.25	17.05	+5	−5	53.19	25.93	+5	0	50.23	33.77	−2	+5
16	50.33	9.51	+1	−9	53.30	17.35	+6	−2	53.14	26.23	+3	+3	50.10	33.96	−4	+4
17	50.47	9.70	+3	−9	53.34	17.65	+5	+1	53.08	26.53	+1	+5	49.96	34.15	−4	+2
18	50.61	9.90	+5	−7	53.38	17.95	+3	+4	53.02	26.82	−1	+5	49.82	34.33	−4	−1
19	50.74	10.10	+6	−4	53.42	18.26	+1	+5	52.95	27.12	−3	+5	49.69	34.50	−4	−3
20	50.87	10.31	+6	−1	53.45	18.56	−2	+5	52.89	27.40	−4	+3	49.55	34.67	−2	−5
21	51.00	10.52	+4	+2	53.48	18.87	−3	+4	52.82	27.69	−5	0	49.40	34.84	−1	−6
22	51.13	10.74	+2	+4	53.50	19.17	−4	+2	52.74	27.97	−4	−2	49.26	35.00	+1	−6
23	51.25	10.96	0	+5	53.53	19.48	−4	−1	52.67	28.25	−3	−4	49.12	35.15	+3	−4
24	51.37	11.18	−2	+5	53.54	19.79	−4	−3	52.59	28.53	−2	−6	48.97	35.30	+4	−1
25	51.49	11.41	−4	+3	53.56	20.10	−3	−5	52.51	28.81	0	−6	48.83	35.45	+4	+2
26	51.61	11.64	−4	+1	{53.57 {53.58	20.41 20.72	−1 +1	−6} −6}	52.43	29.08	+2	−5	48.68	35.59	+4	+5
27	51.72	11.88	−4	−2	53.58	21.03	+3	−5	52.34	29.35	+3	−3	48.53	35.72	+2	+8
28	51.83	12.12	−3	−4	53.59	21.34	+4	−2	52.25	29.62	+4	0	48.38	35.85	0	+10
29	51.94	12.37	−2	−5	53.58	21.65	+4	+1	52.16	29.88	+4	+3	48.23	35.97	−3	+9
30	52.04	12.62	0	−6					52.07	30.14	+3	+6	48.08	36.09	−4	+7
31	52.15	12.87	+2	−5					51.97	30.40	+1	+8	47.93	36.20	−5	+4
32	52.24	13.13	+3	−4					51.87	30.65	−1	+9				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 52′ 0″	8.053	+7.991	+82° 52′ 20″	8.059	+7.997	+82° 52′ 30″	8.062	+8.000
10	8.056	+7.994	30	8.062	+8.000	40	8.065	+8.003

$\alpha_{1938.0} = 10^h\ 23^m\ 41^s.74$ $\delta_{1938.0} = +82°\ 52'\ 32''.05$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Nf) 30 Hev. Camelopardalis $5^{m}.34$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$10^h 23^m$	82° 52′	$0^s.01$	$0''.01$	$10^h 23^m$	82° 52′	$0^s.01$	$0''.01$	$10^h 23^m$	82° 52′	$0^s.01$	$0''.01$	$10^h 23^m$	82° 52′	$0^s.01$	$0''.01$
1	$47^s.93$	$36''.20$	−5	+4	$42^s.99$	$36''.89$	+1	−9	$38^s.85$	$32''.53$	+6	−6	$36^s.26$	$23''.99$	+2	+4
2	47.78	36.31	−5	−1	42.84	36.82	+3	−9	38.73	32.31	+6	−2	36.21	23.67	−1	+5
3	47.62	36.41	−3	−5	42.68	36.75	+5	−7	38.62	32.09	+5	+1	36.17	23.34	−3	+4
4	47.46	36.51	−1	−8	42.53	36.67	+6	−4	38.51	31.86	+3	+4	36.13	23.01	−4	+1
5	47.31	36.60	+2	−9	42.38	36.58	+5	−1	38.40	31.63	+1	+5	36.09	22.68	−4	−1
6	47.15	36.69	+4	−8	42.23	36.49	+4	+2	38.29	31.39	−2	+4	36.05	22.35	−4	−3
7	46.99	36.77	+5	−6	42.08	36.39	+2	+4	38.19	31.15	−3	+3	36.02	22.01	−2	−4
8	46.83	36.85	+6	−2	41.93	36.29	0	+5	38.09	30.90	−4	+1	35.99	21.67	−1	−6
9	46.67	36.91	+5	+1	41.78	36.18	−2	+4	37.99	30.66	−4	−2	35.96	21.33	+1	−6
10	46.51	36.98	+3	+3	41.63	36.07	−4	+2	37.89	30.40	−3	−4	35.93	20.99	+2	−5
11	46.35	37.03	+1	+5	41.48	35.95	−4	0	37.79	30.15	−2	−5	35.91	20.65	+3	−4
12	46.19	37.08	−1	+5	41.34	35.83	−4	−2	37.69	29.89	0	−6	35.89	20.31	+4	−1
13	46.03	37.13	−3	+4	41.20	35.70	−3	−4	37.60	29.63	+1	−6	35.87	19.96	+4	+3
14	45.87	37.17	−4	+2	41.05	35.57	−2	−5	37.51	29.36	+2	−4	35.85	19.61	+3	+6
15	45.71	37.20	−4	0	40.91	35.43	0	−6	37.42	29.09	+4	−2	35.83	19.26	+1	+9
16	45.55	37.23	−4	−3	40.77	35.29	+2	−5	37.34	28.82	+4	+1	35.82	18.91	−1	+10
17	45.39	37.25	−3	−4	40.63	35.14	+3	−4	37.25	28.54	+4	+4	35.81	18.56	−3	+9
18	45.23	37.27	−1	−6	40.49	34.98	+4	−1	37.17	28.26	+2	+7	35.81	18.20	−5	+7
19	45.06	37.28	0	−6	40.35	34.82	+4	+3	37.09	27.97	0	+9	35.80	17.85	−6	+4
20	44.90	37.28	+2	−5	40.22	34.66	+3	+6	37.02	27.68	−2	+10	35.80	17.49	−5	−1
21	44.74	37.28	+3	−2	40.08	34.49	+1	+9	36.94	27.39	−4	+9	35.80	17.14	−3	−5
22	44.58	37.28	+4	+1	39.95	34.31	−1	+11	36.87	27.10	−6	+6	35.80	16.78	−1	−7
23	44.42	37.26	+4	+4	39.82	34.13	−3	+10	36.80	26.80	−6	+2	35.81	16.42	+2	−8
24	44.26	37.25	+2	+7	39.70	33.95	−5	+8	36.73	26.50	−4	−3	35.82	16.06	+4	−7
25	44.10	37.22	0	+9	39.57	33.76	−6	+4	36.66	26.19	−2	−6	35.83	15.70	+5	−4
26	43.94	37.19	−2	+10	39.44	33.57	−5	−1	36.59	25.88	+1	−8	35.84	15.34	+5	−1
27	43.78	37.16	−4	+9	39.32	33.37	−3	−5	36.53	25.58	+3	−8	35.86	14.97	+4	+2
28	43.62	37.12	−5	+6	39.20	33.17	−1	−8	36.47	25.26	+5	−7	*)35.88	14.61	+2	+4
29	43.46	37.07	−5	+2	39.08	32.96	+2	−9	36.42	24.95	+6	−3	35.90	14.25	0	+5
30	43.30	37.02	−4	−3	38.96	32.75	+4	−8	36.36	24.63	+5	0	35.92	13.89	−2	+4
31	43.15	36.96	−2	−7	38.85	32.53	+6	−6	36.31	24.31	+4	+3	35.95	13.52	−3	+3
32	42.99	36.89	+1	−9					36.26	23.99	+2	+4	35.97	13.16	−4	0

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 52′ 10″	8.056	+7.994	+82° 52′ 20″	8.059	+7.997	+82° 52′ 30″	8.062	+8.000
20	8.059	+7.997	30	8.062	+8.000	40	8.065	+8.003

$\alpha_{1938.0} = 10^h\ 23^m\ 41^s.74$ $\delta_{1938.0} = +82°\ 52'\ 32''.05$

*) Tag der doppelten unteren Kulmination: Aug. 28.

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Nf) 30 Hev. Camelopardalis $5^m.34$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
	10^h23^m	+82° 52′	in $0^s.01$	$0''.01$	10^h23^m	+82° 51′	in $0^s.01$	$0''.01$	10^h23^m	+82° 51′	in $0^s.01$	$0''.01$	10^h23^m	+82° 51′	in $0^s.01$	$0''.01$
1	35.97	13.16	−4	0	38.00	62.52	−2	−6	42.23	53.48	+3	−4	47.73	48.64	+3	+4
2	36.01	12.79	−4	−3	38.11	62.18	−1	−7	42.40	53.25	+4	−1	47.92	48.56	+2	+7
3	36.04	12.43	−3	−5	38.22	61.85	+1	−7	42.57	53.02	+4	+2	48.12	48.49	0	+9
4	36.08	12.07	−1	−6	38.33	61.52	+3	−5	42.74	52.79	+3	+5	48.31	48.43	−2	+10
5	36.11	11.70	0	−7	38.44	61.19	+4	−3	42.91	52.57	+2	+8	48.51	48.37	−4	+8
6	36.16	11.34	+2	−6	38.56	60.86	+4	0	43.08	52.36	−1	+9	48.70	48.32	−5	+6
7	36.20	10.98	+3	−4	38.67	60.54	+4	+3	43.26	52.15	−3	+9	48.89	48.27	−5	+2
8	36.25	10.62	+4	−2	38.79	60.22	+3	+6	43.43	51.94	−4	+7	49.09	48.23	−4	−3
9	36.30	10.25	+4	+1	38.91	59.90	+1	+9	43.61	51.74	−5	+4	49.28	48.20	−2	−6
10	36.35	9.89	+3	+4	39.03	59.59	−1	+9	43.78	51.55	−5	−1	49.47	48.17	+1	−8
11	36.40	9.53	+2	+7	39.16	59.28	−3	+8	43.96	51.36	−3	−5	49.67	48.15	+3	−8
12	36.46	9.17	0	+9	39.28	58.97	−5	+6	44.14	51.17	−1	−7	49.86	48.13	+5	−6
13	36.52	8.81	−2	+9	39.41	58.66	−5	+2	44.32	50.99	+2	−8	50.05	48.12	+6	−3
14	36.58	8.45	−4	+8	39.54	58.36	−4	−2	44.50	50.81	+4	−7	50.25	48.12	+5	0
15	36.64	8.09	−5	+4	39.67	58.05	−2	−5	44.68	50.64	+5	−5	50.44	48.12	+3	+3
16	36.71	7.73	−5	+1	39.81	57.76	0	−7	44.87	50.48	+5	−2	50.63	48.13	+1	+5
17	36.78	7.38	−4	−3	39.95	57.46	+2	−8	45.05	50.32	+4	+2	50.82	48.15	−1	+5
18	36.85	7.02	−2	−6	40.09	57.17	+4	−6	45.24	50.16	+2	+4	51.01	48.17	−3	+4
19	36.93	6.67	+1	−8	40.23	56.88	+5	−3	45.42	50.01	0	+5	51.20	48.19	−4	+2
20	37.00	6.31	+3	−7	40.37	56.60	+5	0	45.61	49.87	−2	+5	51.39	48.23	−4	−1
21	37.08	5.96	+5	−5	40.51	56.32	+4	+3	45.80	49.73	−3	+3	51.57	48.27	−4	−3
22	37.16	5.61	+5	−2	40.66	56.04	+2	+5	45.99	49.59	−4	+1	51.76	48.31	−2	−5
23	37.25	5.26	+5	+1	40.81	55.77	−1	+5	46.18	49.46	−4	−2	51.94	48.36	−1	−6
24	37.33	4.91	+3	+4	40.96	55.50	−2	+4	46.37	49.34	−3	−4	52.13	48.42	+1	−6
25	37.42	4.56	+1	+5	41.11	55.23	−4	+3	46.57	49.22	−2	−6	52.31	48.49	+2	−5
26	37.51	4.22	−1	+5	41.27	54.97	−4	0	46.76	49.11	0	−7	52.49	48.56	+3	−3
27	37.61	3.87	−3	+4	41.42	54.71	−4	−3	46.95	49.00	+1	−6	52.67	48.63	+4	0
28	37.70	3.53	−4	+1	41.58	54.46	−3	−5	47.14	48.90	+3	−5	52.85	48.71	+4	+3
29	37.80	3.19	−4	−1	41.74	54.21	−1	−6	47.34	48.81	+4	−2	53.03	48.80	+3	+6
30	37.90	2.85	−4	−4	41.90	53.96	0	−7	47.53	48.72	+4	+1	53.21	48.89	+1	+9
31	38.00	2.52	−2	−6	42.07	53.72	+2	−6	47.73	48.64	+3	+4	53.38	48.99	−1	+10
32					42.23	53.48	+3	−4					53.56	49.10	−3	+10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 51′ 40″	8.047	+7.984	+82° 51′ 50″	8.050	+7.987	+82° 52′ 10″	8.056	+7.994
50	8.050	+7.987	60	8.053	+7.991	20	8.059	+7.997

$\alpha_{1938.0} = 10^h\ 23^m\ 41^s.74$ $\delta_{1938.0} = +82°\ 52'\ 32''.05$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Ng) ε Ursae minoris $4^m.40$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	16^h52^m	+82° 8′	in $0^s.01$	$0''.01$	16^h52^m	+82° 8′	in $0^s.01$	$0''.01$	16^h52^m	+82° 8′	in $0^s.01$	$0''.01$	16^h52^m	+82° 8′	in $0^s.01$	$0''.01$
1	3.48	25.59	−1	+6	6.48	17.02	−1	−5	10.69	13.59	0	−6	15.50	15.73	+3	−4
2	3.54	25.26	−2	+4	6.61	16.81	0	−7	10.85	13.56	0	−8	15.64	15.90	+3	0
3	3.60	24.94	−2	0	6.74	16.61	+1	−8	11.02	13.54	+2	−8	15.78	16.07	+3	+3
4	3.66	24.61	−1	−3	6.88	16.42	+2	−7	11.18	13.53	+3	−6	15.92	16.25	+2	+7
5	3.72	24.29	−1	−6	7.02	16.23	+3	−5	11.34	13.52	+3	−3	16.05	16.43	0	+9
6	3.79	23.97	0	−8	7.16	16.05	+3	−1	11.50	13.51	+3	+1	16.18	16.62	−1	+8
7	3.86	23.66	+2	−8	7.30	15.88	+3	+3	11.67	13.52	+2	+5	16.31	16.81	−2	+6
8	3.93	23.35	+3	−6	7.45	15.71	+2	+6	11.83	13.53	+1	+8	16.44	17.01	−3	+2
9	4.01	23.04	+3	−4	7.59	15.54	+1	+9	11.99	13.55	0	+9	16.57	17.21	−3	−2
10	4.09	22.73	+4	0	7.73	15.39	−1	+9	12.15	13.57	−2	+8	16.69	17.42	−2	−6
11	4.17	22.43	+3	+5	7.88	15.24	−2	+7	12.31	13.60	−3	+5	16.81	17.63	−1	−8
12	4.26	22.13	+1	+8	8.03	15.09	−3	+3	12.47	13.64	−3	0	16.93	17.85	0	−9
13	4.34	21.83	0	+9	8.18	14.95	−3	−1	12.63	13.69	−3	−3	17.05	18.07	+1	−7
14	4.43	21.54	−2	+8	8.33	14.82	−3	−5	12.79	13.74	−2	−7	17.17	18.30	+2	−4
15	4.53	21.25	−3	+6	8.48	14.69	−1	−8	12.95	13.80	−1	−9	17.29	18.53	+2	−1
16	4.62	20.96	−3	+1	8.63	14.57	0	−9	13.10	13.86	0	−8	17.40	18.77	+2	+3
17	4.72	20.68	−3	−3	8.79	14.45	+1	−8	13.26	13.93	+1	−6	17.51	19.01	+1	+5
18	4.82	20.40	−2	−7	8.94	14.35	+2	−5	13.42	14.01	+2	−3	17.62	19.26	0	+7
19	4.93	20.13	−1	−9	9.10	14.24	+2	−2	13.58	14.09	+2	0	17.73	19.51	−1	+8
20	5.04	19.86	0	−9	9.26	14.15	+2	+2	13.73	14.18	+1	+4	17.83	19.76	−1	+7
21	5.15	19.60	+1	−7	9.42	14.06	+1	+5	13.88	14.28	+1	+6	17.93	20.02	−2	+5
22	5.26	19.34	+2	−4	9.57	13.98	0	+7	14.04	14.38	0	+8	18.03	20.28	−2	+2
23	5.37	19.09	+2	0	9.73	13.90	0	+8	14.19	14.49	−1	+8	18.13	20.54	−2	−1
24	5.48	18.84	+1	+3	9.89	13.84	−1	+7	14.34	14.61	−2	+6	18.22	20.81	−1	−4
25	5.60	18.59	+1	+6	10.05	13.77	−2	+6	14.49	14.73	−2	+4	18.31	21.08	0	−7
26	5.72	18.35	0	+8	10.21	13.72	−2	+3	14.64	14.85	−2	+1	18.40	21.35	+1	−8
27	5.84	18.11	−1	+8	10.37	13.67	−2	−1	14.78	14.98	−2	−2	18.49	21.63	+2	−8
28	5.96	17.88	−2	+7	10.53	13.63	−1	−4	14.93	15.12	−1	−5	18.58	21.91	+3	−6
29	6.09	17.66	−2	+4	10.69	13.59	0	−6	15.08	15.27	0	−7	18.66	22.20	+3	−2
30	6.22	17.44	−2	+2					15.22	15.42	+1	−8	18.74	22.49	+3	+2
31	6.35	17.22	−2	−2					15.36	15.57	+2	−7	18.81	22.78	+2	+5
32	6.48	17.02	−1	−5					15.50	15.73	+3	−4				

δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 8′ 10″	7.309	+7.240	+82° 8′ 20″	7.311	+7.243
20	7.311	+7.243	30	7.314	+7.245

$\alpha_{1938.0} = 16^h\ 52^m\ 15^s.00$ $\delta_{1938.0} = +82°\ 8'\ 32''.40$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Ng) ε Ursae minoris $4^{m}.40$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder	
	$16^h 52^m$	$+82° 8'$	in $0^s.01$	in $0''.01$	$16^h 52^m$	$+82° 8'$	in $0^s.01$	in $0''.01$
1	18.81	22.78	+2	+5	19.87	32.68	−2	+5
2	18.89	23.07	+1	+8	19.86	33.01	−3	+1
3	18.96	23.37	−1	+8	19.85	33.34	−3	−3
4	19.03	23.67	−2	+7	19.83	33.67	−2	−7
5	19.10	23.97	−3	+3	{19.81 {19.79	34.00 34.33	−1 0	−9} −9}
6	19.16	24.27	−3	−1	19.77	34.66	+1	−7
7	19.22	24.58	−3	−5	19.74	34.98	+2	−4
8	19.28	24.89	−2	−8	19.71	35.30	+2	0
9	19.34	25.20	−1	−9	19.67	35.63	+1	+3
10	19.39	25.51	+1	−8	19.64	35.95	+1	+6
11	19.44	25.83	+1	−5	19.60	36.27	0	+7
12	19.49	26.14	+2	−2	19.56	36.59	−1	+7
13	19.53	26.46	+2	+1	19.52	36.91	−1	+6
14	19.58	26.78	+1	+4	19.47	37.22	−2	+4
15	19.62	27.10	0	+6	19.42	37.54	−2	+1
16	19.66	27.42	0	+8	19.37	37.85	−2	−2
17	19.69	27.75	−1	+7	19.32	38.16	−1	−5
18	19.72	28.08	−2	+6	19.26	38.47	0	−7
19	19.75	28.40	−2	+4	19.20	38.78	+1	−8
20	19.78	28.73	−2	+1	19.14	39.08	+2	−7
21	19.80	29.06	−1	−2	19.07	39.39	+3	−5
22	19.82	29.39	0	−5	19.01	39.69	+4	−1
23	19.84	29.71	+1	−7	18.94	39.99	+3	+3
24	19.85	30.04	+2	−8	18.87	40.28	+2	+6
25	19.86	30.37	+3	−6	18.79	40.58	+1	+8
26	19.87	30.70	+3	−4	18.71	40.87	−1	+8
27	19.88	31.03	+3	0	18.64	41.16	−2	+7
28	19.88	31.36	+3	+4	18.55	41.44	−3	+3
29	19.88	31.69	+2	+7	18.47	41.72	−3	−1
30	19.88	32.02	0	+9	18.38	42.00	−3	−5
31	19.88	32.35	−1	+8	18.29	42.28	−2	−8
32	19.87	32.68	−2	+5				

Tag	Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$16^h 52^m$	$+82° 8'$	in $0^s.01$	in $0''.01$	$16^h 52^m$	$+82° 8'$	in $0^s.01$	in $0''.01$
1	18.29	42.28	−2	−8	14.50	49.12	+2	−3
2	18.20	42.55	0	−9	14.35	49.27	+2	+1
3	18.11	42.83	+1	−8	14.20	49.42	+1	+4
4	18.01	43.09	+1	−5	14.05	49.57	0	+6
5	17.91	43.36	+2	−1	13.89	49.71	−1	+7
6	17.81	43.62	+2	+2	13.74	49.85	−1	+7
7	17.71	43.88	+1	+5	13.58	49.98	−2	+6
8	17.60	44.13	0	+7	13.42	50.11	−2	+3
9	17.49	44.39	−1	+8	13.26	50.23	−2	0
10	17.38	44.63	−1	+7	13.10	50.35	−2	−3
11	17.27	44.88	−2	+5	12.94	50.46	−1	−5
12	17.16	45.12	−2	+2	12.78	50.57	0	−7
13	17.05	45.36	−2	−1	12.61	50.67	+1	−8
14	16.93	45.59	−1	−3	12.45	50.77	+2	−7
15	16.81	45.82	0	−6	12.28	50.86	+3	−4
16	16.69	46.05	+1	−7	12.12	50.95	+3	−1
17	16.57	46.27	+2	−7	11.95	51.04	+3	+3
18	16.44	46.49	+3	−6	11.78	51.12	+2	+7
19	16.31	46.71	+3	−3	11.61	51.19	+1	+8
20	16.18	46.92	+3	+1	11.44	51.26	−1	+8
21	16.05	47.13	+3	+5	11.27	51.33	−2	+6
22	15.92	47.33	+2	+8	11.10	51.39	−3	+3
23	15.79	47.53	0	+9	10.92	51.44	−3	−1
24	15.65	47.72	−1	+8	10.75	51.49	−2	−5
25	15.51	47.91	−2	+5	10.58	51.53	−1	−8
26	15.37	48.10	−3	+1	10.40	51.57	0	−9
27	15.23	48.28	−3	−3	10.23	51.61	+1	−7
28	15.08	48.45	−2	−7	10.05	51.64	+2	−5
29	14.94	48.63	−1	−9	9.87	51.66	+2	−1
30	14.79	48.80	0	−8	9.70	51.68	+2	+3
31	14.65	48.96	+1	−6	9.52	51.69	+1	+6
32	14.50	49.12	+2	−3	9.34	51.70	0	+7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 8′ 20″	7.311	+7.243	+82° 8′ 40″	7.317	+7.248	+82° 8′ 50″	7.319	+7.250
30	7.314	+7.245	50	7.319	+7.250	60	7.322	+7.253

$\alpha_{1938.0} = 16^h\ 52^m\ 15^s.00$ $\delta_{1938.0} = +82°\ 8'\ 32''.40$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Ng) ε Ursae minoris $4^m.40$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$16^h 52^m$	82° 8′	$0^s.01$	$0''.01$	$16^h 51^m$	82° 8′	$0^s.01$	$0''.01$	$16^h 51^m$	82° 8′	$0^s.01$	$0''.01$	$16^h 51^m$	82° 8′	$0^s.01$	$0''.01$
1	9.34	51.70	0	+7	64.07	49.63	−2	+5	59.53	43.05	−1	−5	57.08	33.51	+2	−7
2	9.17	51.70	−1	+8	63.91	49.48	−2	+3	59.41	42.77	0	−7	57.04	33.16	+3	−6
3	8.99	51.70	−2	+7	63.74	49.33	−2	0	59.29	42.49	+1	−7	57.01	32.81	+3	−3
4	8.81	51.69	−2	+4	63.58	49.17	−2	−3	59.18	42.20	+2	−7	*) 56.97	32.46	+3	+1
5	8.64	51.68	−2	+1	63.41	49.01	−1	−6	59.07	41.91	+3	−5	56.95	32.10	+3	+4
6	8.46	51.67	−2	−2	63.25	48.85	0	−7	58.96	41.62	+3	−1	56.92	31.75	+1	+7
7	8.28	51.65	−1	−4	63.09	48.68	+1	−7	58.85	41.33	+3	+2	56.90	31.40	0	+8
8	8.10	51.62	0	−6	62.93	48.51	+2	−6	58.75	41.03	+2	+6	56.88	31.05	−1	+7
9	7.93	51.59	+1	−7	62.77	48.33	+3	−3	58.65	40.73	+1	+8	56.86	30.69	−2	+5
10	7.75	51.55	+2	−7	62.61	48.14	+3	0	58.55	40.43	−1	+8	56.84	30.34	−3	+1
11	7.57	51.51	+3	−5	62.45	47.96	+3	+4	58.45	40.13	−2	+6	56.83	29.98	−3	−3
12	7.39	51.46	+3	−2	62.30	47.77	+1	+7	58.36	39.82	−3	+3	56.82	29.63	−2	−7
13	7.21	51.41	+3	+2	62.14	47.57	0	+8	58.27	39.51	−3	−1	56.82	29.28	−1	−9
14	7.03	51.35	+2	+5	61.99	47.37	−1	+8	58.18	39.20	−2	−5	56.82	28.92	0	−8
15	6.86	51.29	+1	+8	61.83	47.16	−2	+5	58.09	38.88	−1	−7	56.82	28.57	+1	−6
16	6.68	51.23	0	+8	61.68	46.96	−3	+2	58.01	38.56	0	−8	56.83	28.21	+2	−3
17	6.50	51.16	−1	+7	61.53	46.74	−3	−2	57.93	38.24	+1	−7	56.84	27.86	+2	+1
18	6.33	51.08	−2	+4	61.39	46.52	−2	−6	57.85	37.91	+2	−5	56.85	27.51	+1	+4
19	6.15	51.00	−3	0	61.24	46.30	−1	−8	57.77	37.59	+2	−1	56.86	27.16	0	+6
20	5.97	50.91	−2	−4	61.10	46.08	0	−8	57.70	37.26	+2	+2	56.88	26.80	−1	+7
21	5.80	50.82	−1	−7	60.96	45.84	+1	−7	57.63	36.93	+1	+5	56.90	26.45	−1	+7
22	5.62	50.72	0	−8	60.82	45.61	+2	−4	57.56	36.59	0	+7	56.92	26.10	−2	+5
23	5.45	50.62	+1	−8	60.68	45.37	+2	0	57.50	36.26	−1	+7	56.95	25.75	−2	+3
24	5.27	50.51	+1	−6	60.54	45.13	+1	+3	57.43	35.92	−2	+7	56.98	25.41	−2	0
25	5.10	50.40	+2	−2	60.41	44.88	+1	+6	57.38	35.58	−2	+5	57.01	25.06	−2	−2
26	4.93	50.29	+2	+1	60.28	44.63	0	+7	57.32	35.24	−2	+2	57.05	24.72	−1	−5
27	4.75	50.17	+1	+4	60.15	44.37	−1	+8	57.27	34.90	−2	−1	57.09	24.38	0	−7
28	4.58	50.04	0	+7	60.02	44.11	−2	+6	57.22	34.55	−1	−4	57.13	24.03	+1	−7
29	4.41	49.91	−1	+8	59.90	43.85	−2	+4	57.17	34.21	0	−6	57.17	23.69	+2	−6
30	4.24	49.77	−2	+7	59.77	43.59	−2	+1	57.12	33.86	+1	−7	57.22	23.36	+3	−4
31	4.07	49.63	−2	+5	59.65	43.32	−2	−2	57.08	33.51	+2	−7	57.27	23.02	+3	−1
32					59.53	43.05	−1	−5					57.32	22.68	+3	+3

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 8′ 20″	7.311	+7.243	+82° 8′ 40″	7.317	+7.248	+82° 8′ 50″	7.319	+7.250
30	7.314	+7.245	50	7.319	+7.250	60	7.322	+7.253

$\alpha_{1938.0} = 16^h\ 52^m\ 15^s.00$ $\delta_{1938.0} = +82°\ 8'\ 32''.40$

*) Tag der doppelten unteren Kulmination: Dez. 4.

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Nh) δ Ursae minoris $4^{m}.44$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
		+	in			+	in			+	in			+	in	
	$17^h 51^m$	86° 36′	$0.^s01$	$0.''01$	$17^h 51^m$	86° 36′	$0.^s01$	$0.''01$	$17^h 51^m$	86° 36′	$0.^s01$	$0.''01$	$17^h 52^m$	86° 36′	$0.^s01$	$0.''01$
1	$43.^s02$	$44.''62$	−2	+7	$47.^s00$	$35.''16$	−5	−4	$55.^s28$	$29.''90$	−4	−6	$6.^s43$	$29.''57$	+7	−6
2	43.05	44.29	−4	+5	47.23	34.91	−3	−7	55.63	29.80	−1	−8	6.78	29.66	+9	−3
3	43.08	43.96	−5	+2	47.47	34.66	0	−8	55.98	29.70	+2	−9	7.13	29.76	+9	+1
4	43.11	43.63	−5	−2	47.71	34.41	+4	−8	56.33	29.60	+5	−8	7.47	29.86	+7	+5
5	43.16	43.30	−4	−5	47.96	34.17	+7	−7	56.68	29.52	+8	−5	7.82	29.97	+3	+8
6	43.21	42.97	−1	−7	48.22	33.93	+9	−4	57.03	29.43	+9	−1	8.16	30.08	−1	+8
7	43.27	42.64	+2	−9	48.48	33.70	+9	0	57.39	29.36	+8	+3	8.50	30.20	−5	+7
8	43.34	42.31	+5	−8	48.75	33.47	+8	+4	57.75	29.29	+6	+6	8.84	30.33	−8	+4
9	43.41	41.98	+8	−6	49.02	33.24	+5	+8	58.11	29.23	+2	+8	9.17	30.46	−9	0
10	43.50	41.66	+10	−2	49.29	33.02	+1	+9	58.47	29.17	−2	+8	9.51	30.60	−8	−4
11	43.59	41.34	+10	+2	49.57	32.81	−4	+8	58.84	29.12	−6	+6	9.83	30.74	−6	−7
12	43.68	41.02	+7	+6	49.85	32.60	−7	+5	59.20	29.08	−8	+2	10.16	30.89	−3	−8
13	43.78	40.70	+3	+8	50.14	32.40	−9	+1	59.56	29.04	−9	−1	10.48	31.04	+1	−7
14	43.89	40.38	−1	+9	50.43	32.20	−9	−3	59.92	29.01	−7	−5	10.80	31.20	+3	−5
15	44.01	40.06	−5	+7	50.73	32.01	−7	−7	60.29	28.99	−5	−8	11.11	31.36	+5	−2
16	44.13	39.75	−9	+3	51.03	31.82	−4	−8	60.65	28.97	−2	−8	11.42	31.53	+6	+1
17	44.26	39.44	−10	−1	51.34	31.64	−1	−8	61.02	28.96	+1	−7	11.73	31.70	+5	+4
18	44.40	39.13	−9	−5	51.65	31.46	+2	−6	61.38	28.96	+4	−4	12.03	31.88	+3	+6
19	44.54	38.82	−6	−8	51.96	31.29	+4	−3	61.74	28.96	+5	−1	12.33	32.06	+1	+8
20	44.69	38.52	−3	−8	52.28	31.12	+5	0	62.11	28.97	+5	+2	12.63	32.25	−1	+8
21	44.85	38.22	0	−7	52.60	30.96	+5	+4	62.47	28.98	+4	+5	12.92	32.45	−3	+6
22	45.01	37.93	+3	−5	52.92	30.81	+3	+6	62.84	29.00	+2	+7	13.21	32.65	−5	+4
23	45.18	37.63	+5	−2	53.25	30.66	+1	+8	63.20	29.03	0	+8	13.49	32.85	−5	0
24	45.36	37.35	+5	+2	53.58	30.52	−1	+8	63.56	29.07	−2	+7	13.77	33.06	−5	−3
25	45.54	37.06	+4	+5	53.91	30.38	−3	+7	63.92	29.11	−4	+5	14.04	33.28	−3	−6
26	45.73	36.78	+3	+7	54.25	30.25	−5	+4	64.29	29.15	−5	+2	14.31	33.50	0	−8
27	45.93	36.50	+1	+8	54.59	30.13	−6	+1	64.65	29.21	−6	−1	14.58	33.72	+3	−9
28	46.13	36.22	−2	+7	54.93	30.01	−5	−3	65.01	29.27	−5	−5	14.84	33.95	+6	−7
29	46.34	35.95	−4	+6	55.28	29.90	−4	−6	65.37	29.34	−2	−7	15.09	34.18	+9	−4
30	46.56	35.68	−5	+3					65.72	29.41	+1	−8	15.34	34.41	+9	0
31	46.78	35.42	−5	0					66.08	29.49	+4	−8	15.59	34.65	+8	+4
32	47.00	35.16	−5	−4					66.43	29.57	+7	−6				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36′ 20″	16.889	+16.860	+86° 36′ 30″	16.903	+16.873	+86° 36′ 40″	16.917	+16.887
30	16.903	+16.873	40	16.917	+16.887	50	16.931	+16.901

$\alpha_{1938.0} = 17^h\ 52^m\ 12.^s04$ $\delta_{1938.0} = +86°\ 36'\ 44.''54$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Nh) δ Ursae minoris $4^{m}.44$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder in		Juni AR.	Juni Dekl.	Juni ☾ Glieder in		Juli AR.	Juli Dekl.	Juli ☾ Glieder in		August AR.	August Dekl.	August ☾ Glieder in	
	$17^h 52^m$	+ 86° 36′	0.01 s	0.01 ″	$17^h 52^m$	+ 86° 36′	0.01 s	0.01 ″	$17^h 52^m$	+ 86° 36′	0.01 s	0.01 ″	$17^h 52^m$	+ 86° 37′	0.01 s	0.01 ″
1	15.59 s	34.65 ″	+8	+4	20.38 s	43.64 ″	−6	+7	19.10 s	53.70 ″	−7	−6	12.12 s	2.24 ″	+3	−4
2	15.83	34.89	+5	+7	20.43	43.96	−9	+3	18.96	54.01	−4	−8	11.81	2.47	+5	0
3	16.06	35.14	+1	+9	20.48	44.29	−10	−1	18.81	54.32	−1	−8	11.50	2.69	+5	+3
4	16.29	35.40	−3	+8	20.53	44.61	−9	−5	18.66	54.62	+2	−6	11.19	2.91	+3	+6
5	16.52	35.65	−7	+5	20.56	44.93	−6	−7	18.50	54.93	+4	−3	10.87	3.12	+1	+8
6	16.74	35.91	−9	+2	20.59	45.26	−3	−8	18.34	55.24	+5	+1	10.55	3.34	−1	+8
7	16.95	36.18	−9	−2	20.61	45.59	+1	−7	18.17	55.54	+4	+4	10.22	3.54	−3	+7
8	17.16	36.45	−7	−6	20.63	45.91	+3	−4	17.99	55.84	+3	+6	9.89	3.75	−5	+5
9	17.36	36.72	−5	−8	20.64	46.24	+5	−1	17.81	56.14	0	+8	9.55	3.95	−6	+2
10	17.56	36.99	−1	−8	20.65	46.57	+5	+2	17.62	56.43	−2	+7	9.22	4.15	−6	−1
11	17.75	37.27	+2	−6	20.64	46.90	+4	+5	17.42	56.73	−4	+6	8.87	4.34	−4	−4
12	17.94	37.55	+4	−3	20.63	47.22	+2	+7	17.22	57.02	−5	+4	8.53	4.53	−2	−6
13	18.12	37.83	+5	0	20.62	47.55	0	+8	17.02	57.30	−5	+1	8.18	4.72	+1	−8
14	18.29	38.12	+5	+3	20.60	47.88	−2	+7	16.81	57.59	−5	−2	7.83	4.90	+4	−8
15	18.46	38.41	+4	+6	20.57	48.21	−4	+5	16.59	57.87	−3	−5	7.47	5.08	+7	−6
16	18.62	38.70	+2	+7	20.53	48.54	−5	+3	16.37	58.15	−1	−7	7.11	5.25	+9	−3
17	18.78	38.99	0	+8	20.49	48.87	−5	0	16.14	58.43	+2	−8	6.75	5.42	+10	+1
18	18.93	39.29	−3	+7	20.44	49.20	−4	−4	15.91	58.70	+6	−7	6.38	5.58	+8	+5
19	19.07	39.59	−4	+5	20.38	49.53	−2	−6	15.67	58.97	+8	−5	6.01	5.74	+5	+7
20	19.21	39.89	−5	+2	20.32 20.25	49.85 50.18	+1 +4	−8 −8	15.42	59.24	+10	−2	5.64	5.90	+1	+8
21	19.34	40.19	−5	−1	20.18	50.50	+7	−7	15.18	59.51	+10	+2	5.26	6.05	−3	+7
22	19.46	40.50	−4	−5	20.10	50.83	+10	−4	14.92	59.77	+7	+6	4.88	6.20	−6	+4
23	19.58	40.80	−1	−7	20.02	51.15	+10	0	14.66	60.04	+4	+8	4.50	6.34	−8	+1
24	19.70	41.11	+2	−9	19.93	51.47	+9	+4	14.40	60.29	−1	+8	4.12	6.48	−8	−3
25	19.80	41.42	+5	−8	19.83	51.79	+6	+7	14.13	60.55	−5	+6	3.73	6.61	−6	−6
26	19.90	41.74	+8	−6	19.72	52.11	+1	+9	13.86	60.80	−8	+3	3.34	6.74	−3	−8
27	20.00	42.05	+10	−2	19.61	52.43	−3	+8	13.58	61.05	−9	−1	2.95	6.86	0	−8
28	20.09	42.37	+9	+2	19.49	52.75	−7	+5	13.29	61.29	−8	−5	2.55	6.98	+3	−5
29	20.17	42.68	+7	+6	19.37	53.07	−9	+1	13.01	61.54	−5	−8	2.16	7.10	+4	−2
30	20.25	43.00	+3	+8	19.24	53.38	−9	−3	12.71	61.77	−2	−8	1.76	7.21	+5	+2
31	20.32	43.32	−1	+8	19.10	53.70	−7	−6	12.42	62.01	+1	−7	1.36	7.32	+4	+5
32	20.38	43.64	−6	+7					12.12	62.24	+3	−4	0.96	7.42	+2	+7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36′ 30″	16.903	+16.873	+86° 36′ 50″	16.931	+16.901	+86° 37′ 0″	16.945	+16.915
40	16.917	+16.887	60	16.945	+16.915	10	16.958	+16.929

$\alpha_{1938.0} = 17^h\ 52^m\ 12^s.04$ $\delta_{1938.0} = +86°\ 36'\ 44''.54$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Nh) δ Ursae minoris $4^{m}.44$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$17^h 51^m$	86° 37′	$0^s.01$	$0''.01$	$17^h 51^m$	86° 37′	$0^s.01$	$0''.01$	$17^h 51^m$	86° 36′	$0^s.01$	$0''.01$	$17^h 51^m$	86° 36′	$0^s.01$	$0''.01$
1	$60^s.96$	$7''.42$	+2	+7	$48^s.34$	$8''.23$	−4	+7	$36^s.05$	$64''.44$	−5	−4	$27^s.59$	$56''.83$	+2	−8
2	60.56	7.52	−1	+8	47.91	8.18	−6	+4	35.70	64.24	−3	−6	27.39	56.53	+6	−7
3	60.15	7.61	−3	+7	47.49	8.13	−6	+1	35.35	64.04	0	−8	27.20	56.22	+8	−5
4	59.74	7.70	−5	+6	47.07	8.07	−6	−2	35.01	63.83	+3	−8	27.02	55.91	+10	−2
5	59.33	7.78	−6	+3	46.65	8.01	−4	−5	34.67	63.63	+7	−7	26.84	55.60	+9	+2
6	58.91	7.86	−6	0	46.23	7.94	−2	−7	34.34	63.41	+9	−3	26.67	55.28	+7	+6
7	58.50	7.94	−5	−3	45.81	7.86	+1	−8	34.01	63.19	+9	0	26.51	54.97	+3	+8
8	58.08	8.00	−3	−6	45.40	7.78	+4	−8	33.68	62.97	+8	+4	26.35	54.65	−1	+8
9	57.67	8.07	−1	−7	44.98	7.70	+7	−5	33.36	62.75	+5	+7	26.20	54.33	−5	+6
10	57.25	8.13	+3	−8	44.57	7.61	+9	−2	33.04	62.51	+1	+8	26.06	54.01	−8	+3
11	56.83	8.18	+6	−7	44.15	7.51	+9	+2	32.73	62.28	−3	+7	25.92	53.69	−9	−1
12	56.41	8.23	+8	−4	43.74	7.41	+7	+5	32.42	62.04	−6	+5	25.79	53.36	−8	−5
13	55.99	8.27	+9	−1	43.33	7.31	+4	+7	32.12	61.80	−8	+1	25.67	53.03	−5	−7
14	55.57	8.31	+8	+3	42.93	7.20	0	+8	31.82	61.55	−8	−3	25.55	52.70	−2	−8
15	55.14	8.35	+6	+6	42.52	7.09	−4	+7	31.53	61.30	−6	−6	25.44	52.38	+1	−7
16	54.72	8.38	+3	+8	42.12	6.97	−7	+4	31.24	61.05	−4	−8	25.34	52.05	+4	−4
17	54.29	8.40	−1	+8	41.72	6.85	−8	0	30.96	60.79	0	−7	25.25	51.71	+5	0
18	53.87	8.42	−5	+6	41.33	6.72	−7	−4	30.68	60.53	+3	−6	25.16	51.38	+4	+3
19	53.44	8.44	−7	+2	40.93	6.59	−5	−7	30.41	60.26	+5	−3	*) 25.08	51.05	+3	+6
20	53.02	8.45	−8	−2	40.54	6.45	−2	−8	30.14	60.00	+5	+1	25.01	50.71	+1	+7
21	52.59	8.45	−6	−5	40.15	6.31	+1	−7	29.88	59.72	+5	+4	24.95	50.38	−1	+8
22	52.17	8.45	−4	−8	39.76	6.16	+4	−5	29.62	59.45	+3	+6	24.89	50.04	−4	+7
23	51.74	8.45	−1	−8	39.37	6.01	+5	−1	29.37	59.17	0	+8	24.84	49.70	−5	+5
24	51.31	8.44	+2	−6	38.99	5.85	+5	+2	29.13	58.89	−2	+7	24.80	49.37	−6	+2
25	50.89	8.43	+4	−4	38.61	5.69	+4	+5	28.89	58.60	−4	+6	24.76	49.03	−6	−1
26	50.46	8.41	+5	0	38.23	5.52	+2	+7	28.66	58.31	−6	+4	24.73	48.69	−4	−4
27	50.04	8.38	+5	+3	37.86	5.35	−1	+8	28.43	58.02	−6	+1	24.71	48.35	−2	−6
28	49.61	8.35	+3	+6	37.49	5.18	−3	+7	28.21	57.73	−5	−2	24.70	48.02	+1	−8
29	49.19	8.32	+1	+8	37.13	5.00	−5	+5	28.00	57.43	−3	−5	24.69	47.68	+4	−8
30	48.76	8.28	−2	+8	36.76	4.82	−6	+3	27.79	57.14	−1	−7	24.69	47.34	+8	−6
31	48.34	8.23	−4	+7	36.41	4.63	−6	−1	27.59	56.83	+2	−8	24.70	47.00	+10	−3
32					36.05	4.44	−5	−4					24.72	46.66	+10	0

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+86° 36′ 40″	16.917	+16.887	+86° 36′ 50″	16.931	+16.901	+86° 37′ 0″	16.945	+16.915
50	16.931	+16.901	60	16.945	+16.915	10	16.958	+16.929

$\alpha_{1938.0} = 17^h\ 52^m\ 12^s.04$ $\delta_{1938.0} = +86°\ 36'\ 44''.54$

*) Tag der doppelten unteren Kulmination: Dez. 19.

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Ni) λ Ursae minoris $6^m.55$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$18^h 34^m$	+ 89° 2′	in $0^s.01$	in $0''.01$	$18^h 35^m$	+ 89° 2′	in $0^s.01$	in $0''.01$	$18^h 35^m$	+ 89° 2′	in $0^s.01$	in $0''.01$	$18^h 36^m$	+ 89° 2′	in $0^s.01$	in $0''.01$
1	$59^s.93$	$38''.33$	−4	+7	$6^s.08$	$28''.58$	−21	−3	$30^s.41$	$22''.13$	−19	−5	$8^s.40$	$19''.97$	+22	−7
2	59.75	38.01	−12	+5	6.68	28.29	−15	−6	31.52	21.97	−10	−7	9.67	20.00	+31	−4
3	59.59	37.68	−18	+3	7.30	28.01	−5	−8	32.64	21.82	+1	−9	10.93	20.04	+34	0
4	59.45	37.36	−21	−1	7.94	27.73	+8	−9	33.78	21.67	+15	−9	12.19	20.08	+29	+4
5	59.34	37.03	−18	−4	8.60	27.46	+21	−8	34.92	21.53	+26	−6	13.45	20.13	+18	+7
6	59.25	36.71	−10	−7	9.29	27.19	+32	−5	36.08	21.39	+34	−3	14.70	20.18	+3	+9
7	59.19	36.38	+1	−9	10.00	26.92	+37	−1	37.24	21.26	+34	+1	15.95	20.24	−13	+8
8	59.16	36.06	+16	−9	10.73	26.66	+35	+3	38.42	21.14	+28	+5	17.19	20.31	−27	+5
9	59.15	35.73	+28	−7	11.49	26.40	+26	+6	39.61	21.02	+15	+8	18.43	20.38	−34	+2
10	59.17	35.41	+37	−4	12.26	26.14	+10	+9	40.80	20.91	−1	+9	19.66	20.46	−34	−2
11	59.21	35.08	+39	0	13.05	25.89	−7	+8	42.01	20.80	−17	+7	20.89	20.54	−29	−5
12	59.28	34.76	+33	+4	13.86	25.64	−22	+6	43.22	20.70	−29	+4	22.11	20.63	−17	−7
13	59.38	34.44	+20	+8	14.69	25.40	−33	+3	44.44	20.60	−34	0	23.32	20.72	−3	−7
14	59.50	34.12	+2	+9	15.55	25.16	−36	−1	45.67	20.51	−32	−3	24.53	20.82	+9	−6
15	59.65	33.79	−16	+8	16.42	24.92	−32	−5	46.90	20.43	−24	−6	25.72	20.93	+17	−3
16	59.82	33.47	−30	+5	17.31	24.69	−22	−7	48.14	20.35	−12	−7	26.91	21.04	+22	0
17	60.02	33.15	−38	+1	18.22	24.47	−8	−8	49.39	20.28	+1	−7	28.09	21.16	+22	+3
18	60.25	32.83	−38	−3	19.14	24.25	+5	−6	50.64	20.22	+13	−5	29.26	21.28	+18	+6
19	60.50	32.51	−31	−6	20.09	24.03	+15	−4	51.89	20.16	+20	−2	30.42	21.41	+10	+7
20	60.78	32.20	−18	−8	21.05	23.82	+21	0	53.15	20.11	+23	+1	31.56	21.55	+1	+8
21	61.09	31.88	−4	−7	22.03	23.61	+22	+3	54.41	20.06	+21	+4	32.70	21.69	−8	+7
22	61.42	31.57	+9	−5	23.02	23.41	+18	+6	55.68	20.02	+15	+7	33.83	21.84	−16	+4
23	61.78	31.26	+17	−2	24.03	23.21	+11	+7	56.95	19.99	+6	+8	34.94	21.99	−20	+1
24	62.16	30.95	+21	+1	25.06	23.02	+1	+8	58.22	19.96	−4	+7	36.05	22.15	−21	−2
25	62.57	30.65	+20	+4	26.10	22.83	−8	+7	59.50	19.94	−12	+6	37.14	22.31	−16	−5
26	63.00	30.34	+15	+7	27.16	22.65	−16	+5	60.77	19.93	−19	+3	38.21	22.48	−7	−8
27	63.45	30.04	+8	+8	28.23	22.47	−21	+2	62.05	19.92	−22	0	39.28	22.65	+6	−9
28	63.93	29.74	−2	+7	29.31	22.30	−22	−2	63.32	19.92	−21	−4	40.33	22.83	+19	−8
29	64.43	29.45	−11	+6	30.41	22.13	−19	−5	64.59	19.92	−14	−7	41.37	23.01	+30	−6
30	64.96	29.16	−18	+4					65.87	19.93	−3	−8	42.39	23.20	+35	−2
31	65.51	28.87	−22	+1					67.14	19.95	+10	−9	43.40	23.39	+33	+2
32	66.08	28.58	−21	−3					68.40	19.97	+22	−7				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 2′ 10″	59.445	+59.437	+89° 2′ 20″	59.617	+59.608	+89° 2′ 30″	59.790	+59.781
20	59.617	+59.608	30	59.790	+59.781	40	59.964	+59.955

$\alpha_{1938.0} = 18^h\ 36^m\ 43^s.09$ $\delta_{1938.0} = +89°\ 2'\ 33''.15$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Ni) λ Ursae minoris $6^m.55$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder in 0.01 (s)	Mai ☾ Glieder in 0.01 (″)	Juni AR.	Juni Dekl.	Juni ☾ Glieder in 0.01 (s)	Juni ☾ Glieder in 0.01 (″)	Juli AR.	Juli Dekl.	Juli ☾ Glieder in 0.01 (s)	Juli ☾ Glieder in 0.01 (″)	August AR.	August Dekl.	August ☾ Glieder in 0.01 (s)	August ☾ Glieder in 0.01 (″)
	$18^h 36^m$	+89° 2′			$18^h 37^m$	+89° 2′			$18^h 36^m$	+89° 2′			$18^h 36^m$	+89° 2′		
	s	″			s	″			s	″			s	″		
1	43.40	23.39	+33	+2	6.06	31.29	−18	+8	68.70 68.44	40.94 41.27	−39 −34	−1 −5	49.86	50.75	+10	−5
2	44.40	23.58	+23	+6	6.47	31.59	−32	+5	68.16	41.59	−24	−7	48.95	51.02	+17	−1
3	45.38	23.78	+9	+8	6.86	31.90	−39	+1	67.85	41.92	−10	−7	48.02	51.29	+19	+2
4	46.35	23.99	−9	+8	7.23	32.21	−38	−3	67.53	42.24	+3	−6	47.07	51.56	+16	+5
5	47.30	24.20	−24	+6	7.58	32.52	−29	−6	67.18	42.57	+14	−3	46.10	51.83	+9	+7
6	48.23	24.41	−35	+3	7.90	32.83	−17	−7	66.81	42.90	+19	0	45.12	52.09	0	+8
7	49.15	24.63	−38	−1	8.20	33.14	−3	−7	66.42	43.22	+19	+3	44.12	52.35	−9	+7
8	50.05	24.85	−34	−4	8.48	33.46	+9	−5	66.00	43.54	+14	+6	43.10	52.60	−17	+6
9	50.94	25.08	−23	−7	8.74	33.77	+17	−2	65.57	43.86	+7	+7	42.07	52.85	−21	+3
10	51.80	25.31	−10	−7	8.98	34.09	+21	+1	65.11	44.18	−2	+8	41.02	53.10	−23	0
11	52.65	25.55	+3	−6	9.19	34.41	+19	+4	64.63	44.50	−10	+6	39.95	53.35	−20	−3
12	53.48	25.79	+14	−4	9.38	34.73	+14	+6	64.13	44.81	−17	+4	38.87	53.59	−13	−6
13	54.29	26.03	+21	−1	9.55	35.06	+6	+7	63.60	45.13	−21	+2	37.77	53.83	−3	−8
14	55.09	26.28	+22	+2	9.69	35.38	−3	+7	63.06	45.44	−21	−1	36.66	54.06	+10	−9
15	55.86	26.53	+19	+5	9.82	35.71	−11	+6	62.50	45.75	−17	−4	35.53	54.29	+23	−7
16	56.62	26.79	+13	+7	9.92	36.03	−17	+4	61.92	46.06	−9	−7	34.39	54.52	+33	−5
17	57.36	27.05	+4	+8	10.00	36.36	−20	0	61.31	46.37	+3	−9	33.23	54.75	+38	−1
18	58.08	27.31	−5	+7	10.05	36.68	−19	−3	60.69	46.67	+17	−9	32.06	54.97	+36	+3
19	58.78	27.57	−13	+5	10.08	37.01	−14	−6	60.04	46.98	+30	−7	30.88	55.19	+26	+6
20	59.47	27.84	−18	+3	10.09	37.33	−3	−8	59.38	47.28	+38	−4	29.68	55.40	+12	+8
21	60.13	28.11	−20	0	10.08	37.66	+10	−9	58.69	47.58	+40	0	28.47	55.61	−5	+7
22	60.77	28.39	−17	−4	10.04	37.99	+23	−8	57.99	47.88	+34	+4	27.24	55.82	−20	+5
23	61.39	28.67	−10	−7	9.98	38.32	+34	−6	57.26	48.18	+21	+7	26.00	56.02	−30	+2
24	61.99	28.95	+2	−9	9.90	38.64	+40	−2	56.52	48.48	+3	+8	24.74	56.22	−33	−2
25	62.58	29.24	+15	−9	9.80	38.97	+38	+2	55.75	48.77	−14	+7	23.48	56.42	−28	−5
26	63.14	29.52	+28	−7	9.67	39.30	+27	+6	54.96	49.06	−28	+4	22.20	56.61	−18	−7
27	63.68	29.81	+36	−4	9.52	39.63	+11	+8	54.16	49.35	−35	0	20.91	56.80	−5	−7
28	64.20	30.10	+37	0	9.35	39.96	−7	+8	53.33	49.63	−35	−3	19.60	56.98	+7	−6
29	64.70	30.40	+31	+4	9.15	40.28	−24	+6	52.49	49.92	−27	−6	18.30	57.16	+16	−3
30	65.17	30.69	+18	+7	8.94	40.61	−35	+3	51.63	50.20	−15	−7	16.97	57.34	+20	+1
31	65.63	30.99	0	+9	8.70 8.44	40.94 41.27	−39 −34	−1 −5	50.75	50.48	−1	−7	15.64	57.51	+18	+4
32	66.06	31.29	−18	+8					49.86	50.75	+10	−5	14.29	57.68	+13	+6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 2′ 20″	59.617	+59.608	+89° 2′ 40″	59.964	+59.955	+89° 2′ 50″	60.138	+60.130
30	59.790	+59.781	50	60.138	+60.130	60	60.314	+60.306

$\alpha_{1938.0} = 18^h\ 36^m\ 43^s.09$ $\delta_{1938.0} = +89°\ 2'\ 33''.15$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Ni) λ Ursae minoris $6^{m}.55$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		+	in			+	in			+	in			+	in	
	$18^h 35^m$	89° 2′	$0^s.01$	0″.01	$18^h 34^m$	89° 2′	$0^s.01$	0″.01	$18^h 34^m$	89° 2′	$0^s.01$	0″.01	$18^h 33^m$	89° 2′	$0^s.01$	0″.01
1	$74^s.29$	57″.68	+13	+6	$90^s.40$	60″.60	−11	+7	$44^s.20$	59.01	−22	−3	$68^s.42$	53″.10	+3	−8
2	72.94	57.84	+4	+8	88.88	60.62	−18	+5	42.81	58.88	−15	−6	67.49	52.84	+17	−8
3	71.57	58.00	−6	+8	87.35	60.64	−23	+2	41.43	58.74	−5	−8	66.58	52.58	+28	−6
4	70.19	58.15	−15	+6	85.82	60.65	−24	−1	40.06	58.60	+8	−9	65.69	52.31	+36	−3
5	68.81	58.30	−21	+4	84.29	60.66	−20	−4	38.70	58.45	+20	−8	64.83	52.04	+37	0
6	67.41	58.44	−24	+1	82.76	60.66	−12	−7	37.35	58.30	+31	−5	63.98	51.76	+31	+4
7	66.01	58.58	−23	−2	81.23	60.66	−1	−8	36.02	58.15	+35	−2	63.16	51.48	+18	+7
8	64.60	58.72	−18	−5	79.70	60.66	+12	−8	34.69	57.99	+33	+2	62.36	51.20	+1	+8
9	63.18	58.85	−8	−7	78.17	60.65	+23	−7	33.38	57.83	+24	+6	61.58	50.91	−16	+7
10	61.75	58.98	+4	−9	76.64	60.63	+32	−4	32.08	57.66	+10	+8	60.83	50.63	−29	+4
11	60.32	59.10	+17	−8	75.12	60.61	+34	0	30.80	57.49	−6	+8	60.09	50.34	−35	0
12	58.87	59.22	+28	−6	73.59	60.59	+30	+4	29.53	57.31	−21	+6	59.38	50.05	−34	−3
13	57.42	59.34	+34	−2	72.07	60.56	+19	+7	28.27	57.13	−31	+3	58.69	49.75	−26	−6
14	55.96	59.45	+35	+1	70.55	60.52	+4	+8	27.03	56.94	−34	−1	58.03	49.46	−14	−7
15	54.49	59.56	+28	+5	69.04	60.48	−11	+7	25.80	56.75	−30	−5	57.39	49.16	0	−7
16	53.02	59.66	+16	+7	67.53	60.43	−24	+5	24.59	56.55	−20	−7	56.77	48.85	+11	−4
17	51.54	59.76	+1	+8	66.03	60.38	−31	+1	23.39	56.35	−6	−7	56.18	48.55	+18	−1
18	50.06	59.85	−14	+6	64.53	60.33	−31	−2	22.21	56.14	+7	−6	55.61	48.24	+20	+2
19	48.57	59.93	−26	+3	63.03	60.27	−24	−5	21.04	55.93	+16	−4	55.07	47.94	+16	+5
20	47.08	60.01	−31	0	61.54	60.20	−13	−7	19.89	55.72	+21	0	54.55	47.63	+9	+7
21	45.58	60.09	−29	−4	60.06	60.13	0	−7	18.76	55.50	+21	+3	54.05	47.31	0	+8
22	44.08	60.16	−21	−7	58.58	60.05	+11	−5	17.64	55.28	+15	+6	53.58	47.00	−9	+7
23	42.57	60.23	−9	−7	57.11	59.97	+19	−2	16.54	55.05	+7	+7	53.13	46.69	−16	+5
24	41.06	60.29	+4	−6	55.64	59.88	+22	+1	15.46	54.82	−2	+8	52.71	46.37	−21	+3
25	39.54	60.35	+14	−4	54.18	59.79	+19	+4	14.40	54.59	−11	+7	52.31	46.05	−22	0
26	38.02	60.40	+20	−1	52.73	59.69	+13	+7	13.36	54.35	−18	+5	51.94	45.73	−19	−3
27	36.50	60.45	+22	+2	51.29	59.59	+4	+8	12.33	54.11	−22	+2	51.60	45.41	−12	−6
28	34.98	60.50	+16	+6	49.85	59.49	−6	+8	11.32	53.86	−22	−1	51.28	45.08	−1	−8
29	33.45	60.54	+9	+7	48.42	59.38	−15	+6	10.33	53.61	−17	−4	50.99	44.76	+11	−9
30	31.93	60.57	−1	+8	47.00	59.26	−21	+4	9.37	53.36	−9	−7	*)50.73	44.43	+24	−8
31	30.40	60.60	−11	+7	45.60	59.14	−23	0	8.42	53.10	+3	−8	50.49	44.11	+35	−5
32					44.20	59.01	−22	−3					50.28	43.78	+40	−1

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+89° 2′ 40″	59.964	+59.955	+89° 2′ 50″	60.138	+60.130	+89° 3′ 0″	60.314	+60.306
50	60.138	+60.130	60	60.314	+60.306	10	60.491	+60.483

$\alpha_{1938.0} = 18^h\ 36^m\ 43^s.09$ $\delta_{1938.0} = +89°\ 2'\ 33''.15$

*) Tag der doppelten unteren Kulmination: Dez. 30.

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Nk) 76 Draconis $5^{m}.69$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
		+	in			+	in			+	in			+	in	
	20^h47^m	82° 18′	$0^s.01$	$0''.01$	20^h47^m	82° 18′	$0^s.01$	$0''.01$	20^h47^m	82° 18′	$0^s.01$	$0''.01$	20^h47^m	82° 18′	$0^s.01$	$0''.01$
1	3.38	30.32	+2	+7	1.69	20.94	−2	0	2.69	12.06	−3	−2	6.27	5.13	0	−9
2	3.29	30.06	+1	+6	*)1.68	20.62	−3	−3	2.77	11.77	−3	−5	6.42	4.99	+1	−8
3	3.19	29.80	−1	+5	1.68	20.29	−3	−6	2.86	11.49	−2	−8	6.57	4.86	+2	−5
4	3.10	29.53	−2	+2	1.67	19.96	−2	−9	2.94	11.21	−1	−9	6.72	4.73	+3	0
5	3.01	29.26	−3	−1	1.68	19.63	−1	−10	3.03	10.93	0	−9	6.87	4.60	+3	+4
6	2.92	28.98	−3	−5	1.68	19.30	+1	−9	3.12	10.66	+2	−7	7.02	4.48	+3	+7
7	2.84	28.70	−3	−8	1.69	18.97	+2	−6	3.21	10.39	+3	−3	7.17	4.37	+1	+9
8	2.76	28.42	−1	−10	1.71	18.64	+3	−2	3.31	10.12	+3	+1	7.32	4.27	0	+8
9	2.68	28.13	0	−10	1.72	18.31	+4	+2	3.41	9.86	+3	+5	7.48	4.17	−2	+6
10	2.60	27.84	+1	−8	1.74	17.98	+3	+6	3.51	9.60	+2	+8	7.63	4.07	−3	+3
11	2.53	27.55	+3	−5	1.77	17.66	+2	+8	3.62	9.35	+1	+9	7.79	3.99	−4	−1
12	2.46	27.26	+4	0	1.79	17.33	0	+8	3.72	9.10	−1	+8	7.95	3.91	−3	−4
13	2.39	26.96	+4	+4	1.82	17.01	−2	+7	3.83	8.86	−3	+5	8.10	3.83	−2	−6
14	2.33	26.66	+3	+7	1.85	16.68	−3	+4	3.94	8.62	−3	+1	8.26	3.76	−1	−6
15	2.27	26.36	+1	+9	1.88	16.36	−4	0	4.05	8.38	−3	−2	8.43	3.70	0	−5
16	2.21	26.06	−1	+8	1.92	16.04	−3	−3	4.17	8.15	−3	−5	8.59	3.64	+2	−3
17	2.15	25.75	−3	+6	1.96	15.72	−3	−5	4.28	7.92	−2	−6	8.75	3.59	+3	0
18	2.10	25.44	−4	+3	2.01	15.40	−1	−6	4.40	7.70	0	−6	8.91	3.55	+3	+3
19	2.05	25.13	−4	−1	2.06	15.09	0	−5	4.52	7.48	+1	−4	9.07	3.51	+3	+5
20	2.00	24.82	−3	−4	2.11	14.78	+1	−3	4.64	7.27	+2	−2	9.24	3.48	+2	+7
21	1.96	24.50	−2	−6	2.16	14.47	+2	0	4.77	7.06	+3	+1	9.40	3.46	+1	+7
22	1.92	24.19	−1	−6	2.22	14.16	+3	+3	4.90	6.86	+3	+4	9.56	3.44	0	+6
23	1.88	23.87	+1	−4	2.28	13.85	+3	+5	5.03	6.67	+3	+6	9.72	3.42	−1	+4
24	1.85	23.55	+2	−2	2.34	13.54	+2	+7	5.16	6.47	+2	+7	9.89	3.42	−2	+1
25	1.82	23.23	+3	+1	2.40	13.24	+1	+7	5.29	6.29	+1	+7	10.05	3.41	−3	−3
26	1.79	22.91	+3	+4	2.47	12.94	0	+6	5.42	6.11	0	+5	10.22	3.42	−3	−6
27	1.76	22.58	+3	+6	2.54	12.64	−1	+4	5.56	5.93	−2	+3	10.38	3.43	−2	−9
28	1.74	22.25	+2	+7	2.62	12.35	−2	+2	5.70	5.76	−3	0	10.55	3.45	−1	−10
29	1.72	21.93	+1	+7	2.69	12.06	−3	−2	5.84	5.59	−3	−4	10.71	3.47	0	−9
30	1.71	21.60	0	+6					5.99	5.43	−3	−7	10.88	3.51	+2	−7
31	1.70	21.27	−1	+3					6.13	5.28	−2	−9	11.04	3.54	+3	−3
32	1.69	20.94	−2	0					6.27	5.13	0	−9				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 18′ 0″	7.463	+7.396	+82° 18′ 20″	7.469	+7.402	+82° 18′ 30″	7.471	+7.404
10	7.466	+7.399	30	7.471	+7.404	40	7.474	+7.407

$\alpha_{1938.0} = 20^h\ 47^m\ 11^s.90$ $\qquad \delta_{1938.0} = +82°\ 18'\ 12''.12$

*) Tag der doppelten unteren Kulmination: Febr. 2.

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Nk) 76 Draconis $5^{m}.69$

Tag	Mai				Juni				Juli				August			
	AR.	Dekl.	ℂ Glieder		AR.	Dekl.	ℂ Glieder		AR.	Dekl.	ℂ Glieder		AR.	Dekl.	ℂ Glieder	
	20^h47^m	+82° 18′	in $0.^s01$	$0.''01$	20^h47^m	+82° 18′	in $0.^s01$	$0.''01$	20^h47^m	+82° 18′	in $0.^s01$	$0.''01$	20^h47^m	+82° 18′	in $0.^s01$	$0.''01$
1	11.04	3.54	+3	−3	15.78	7.58	+1	+9	18.89	15.84	−3	+4	19.81	26.69	−2	−6
2	11.20	3.59	+3	+2	15.91	7.80	−1	+8	18.96	16.16	−4	0	19.80	27.06	−1	−6
3	11.37	3.64	+3	+6	16.04	8.02	−2	+6	19.03	16.49	−4	−3	19.79 19.77	27.42 27.79	+1 +2	−3 −1
4	11.53	3.69	+2	+8	16.17	8.24	−4	+3	19.09	16.82	−3	−5	19.75	28.15	+3	+2
5	11.69	3.75	0	+9	16.30	8.47	−4	−1	19.15	17.15	−1	−6	19.73	28.51	+3	+5
6	11.86	3.82	−1	+8	16.42	8.71	−3	−4	19.21	17.49	0	−5	19.70	28.87	+2	+7
7	12.02	3.89	−3	+5	16.54	8.95	−2	−6	19.27	17.83	+1	−2	19.67	29.23	+1	+8
8	12.18	3.97	−4	+1	16.67	9.19	−1	−6	19.32	18.16	+2	0	19.64	29.59	0	+7
9	12.35	4.05	−3	−3	16.78	9.44	+1	−4	19.37	18.51	+3	+3	19.61	29.95	−1	+5
10	12.51	4.15	−3	−5	16.90	9.69	+2	−2	19.42	18.85	+3	+5	19.57	30.31	−2	+3
11	12.67	4.24	−1	−6	17.02	9.95	+3	+1	19.46	19.19	+2	+7	19.53	30.67	−2	0
12	12.83	4.35	0	−6	17.13	10.21	+3	+4	19.51	19.54	+1	+7	19.49	31.03	−3	−4
13	12.99	4.46	+1	−3	17.24	10.47	+2	+6	19.55	19.89	0	+6	19.45	31.39	−2	−7
14	13.14	4.57	+2	−1	17.36	10.74	+2	+7	19.58	20.23	−1	+4	19.40	31.75	−2	−9
15	13.30	4.69	+3	+2	17.46	11.01	+1	+7	19.62	20.59	−2	+2	19.35	32.10	0	−9
16	13.46	4.82	+3	+4	17.57	11.29	0	+5	19.65	20.94	−3	−2	19.30	32.46	+1	−9
17	13.61	4.95	+2	+6	17.68	11.57	−1	+3	19.68	21.29	−3	−5	19.25	32.81	+2	−6
18	13.76	5.09	+2	+7	17.78	11.85	−2	0	19.71	21.65	−2	−8	19.19	33.16	+3	−2
19	13.91	5.24	+1	+6	17.88	12.14	−3	−3	19.73	22.00	−1	−10	19.13	33.51	+3	+2
20	14.07	5.39	−1	+5	17.98	12.43	−3	−7	19.75	22.36	0	−10	19.07	33.86	+3	+5
21	14.22	5.54	−2	+2	18.07	12.73	−2	−9	19.77	22.72	+2	−8	19.00	34.21	+2	+7
22	14.36	5.70	−3	−1	18.17	13.02	−1	−10	19.79	23.07	+3	−5	18.93	34.56	0	+8
23	14.51	5.87	−3	−5	18.26	13.33	+1	−10	19.80	23.43	+4	0	18.86	34.90	−2	+6
24	14.66	6.04	−2	−8	18.34	13.63	+2	−7	19.82	23.80	+3	+4	18.79	35.25	−3	+3
25	14.80	6.21	−1	−10	18.43	13.94	+3	−3	19.82	24.16	+2	+7	18.71	35.59	−4	−1
26	14.95	6.39	0	−10	18.51	14.25	+3	+2	19.83	24.52	+1	+8	18.64	35.93	−3	−4
27	15.09	6.58	+1	−8	18.59	14.56	+3	+6	19.83	24.88	−1	+7	18.55	36.26	−2	−6
28	15.23	6.77	+3	−5	18.67	14.88	+2	+8	19.84	25.24	−2	+5	18.47	36.60	−1	−6
29	15.37	6.97	+3	0	18.75	15.19	0	+9	19.83	25.61	−3	+2	18.39	36.93	0	−5
30	15.51	7.17	+3	+4	18.82	15.51	−2	+7	19.83	25.97	−4	−2	18.30	37.26	+2	−2
31	15.64	7.37	+2	+8	18.89	15.84	−3	+4	19.82	26.33	−3	−4	18.21	37.59	+2	+1
32	15.78	7.58	+1	+9					19.81	26.69	−2	−6	18.13	37.91	+3	+4

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 18′ 0″	7.463	+7.396	+82° 18′ 20″	7.469	+7.402	+82° 18′ 30″	7.471	+7.404
10	7.466	+7.399	30	7.471	+7.404	40	7.474	+7.407

$\alpha_{1938.0} = 20^h\ 47^m\ 11.^s90$ $\qquad$ $\delta_{1938.0} = +82°\ 18'\ 12.''12$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Nk) 76 Draconis $5^{m}.69$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$20^h 47^m$	+ 82° 18′	in 0.01^s	in $0.01''$	$20^h 47^m$	+ 82° 18′	in 0.01^s	in $0.01''$	$20^h 47^m$	+ 82° 18′	in 0.01^s	in $0.01''$	$20^h 47^m$	+ 82° 18′	in 0.01^s	in $0.01''$
1	$18.^s13$	$37.''91$	+3	+4	$14.^s48$	$46.''30$	+1	+8	$9.^s43$	$51.''00$	−2	+1	$4.^s36$	$50.''55$	−2	−8
2	18.03	38.24	+2	+6	14.34	46.52	0	+7	9.26	51.07	−3	−3	4.20	50.44	−1	−9
3	17.94	38.56	+2	+8	14.19	46.74	−1	+5	9.09	51.13	−3	−6	4.04	50.33	0	−9
4	17.84	38.88	+1	+7	14.04	46.95	−2	+2	8.91	51.19	−2	−9	3.88	50.22	+2	−8
5	17.74	39.19	0	+6	13.89	47.16	−3	−1	8.74	51.24	−1	−9	3.73	50.09	+3	−5
6	17.64	39.51	−1	+4	13.73	47.37	−3	−4	8.56	51.29	+1	−9	3.58	49.97	+3	0
7	17.54	39.82	−2	+1	13.58	47.57	−2	−7	8.39	51.33	+2	−6	3.43	49.83	+3	+4
8	17.43	40.12	−3	−2	13.42	47.76	−1	−9	8.22	51.36	+3	−2	3.28	49.69	+2	+7
9	17.33	40.43	−3	−5	13.27	47.96	0	−9	8.05	51.39	+3	+2	3.13	49.55	+1	+8
10	17.22	40.73	−2	−8	13.11	48.14	+1	−8	7.87	51.41	+3	+5	2.98	49.40	−1	+7
11	17.11	41.03	−1	−9	12.95	48.33	+2	−5	7.70	51.43	+2	+8	2.84	49.24	−2	+5
12	16.99	41.33	0	−9	12.79	48.51	+3	−1	7.53	51.44	0	+8	2.70	49.08	−3	+2
13	16.88	41.62	+2	−7	12.63	48.68	+3	+3	7.36	51.45	−1	+6	2.56	48.91	−4	−2
14	16.76	41.91	+3	−3	12.47	48.85	+2	+6	7.19	51.45	−3	+4	2.42	48.74	−3	−5
15	16.64	42.20	+3	+1	12.30	49.01	+1	+8	7.02	51.44	−3	0	2.28	48.56	−2	−6
16	16.52	42.48	+3	+4	12.14	49.17	0	+7	6.85	51.43	−3	−3	2.15	48.38	0	−5
17	16.40	42.76	+2	+7	11.97	49.33	−2	+5	6.68	51.41	−2	−5	2.01	48.19	+1	−3
18	16.27	43.03	+1	+8	11.80	49.47	−3	+2	6.51	51.38	−1	−6	1.88	48.00	+2	−1
19	16.15	43.31	−1	+6	11.64	49.62	−3	−1	6.34	51.35	0	−5	1.75	47.80	+3	+2
20	16.02	43.57	−2	+4	11.47	49.76	−3	−5	6.17	51.32	+1	−3	1.62	47.60	+3	+5
21	15.89	43.84	−3	0	11.30	49.89	−2	−6	6.00	51.28	+2	0	1.49	47.39	+2	+7
22	15.75	44.10	−3	−3	11.14	50.02	−1	−6	5.83	51.23	+3	+3	1.37	47.18	+1	+7
23	15.62	44.36	−3	−5	10.97	50.14	+1	−5	5.66	51.18	+3	+5	1.25	46.96	0	+7
24	15.48	44.62	−1	−6	10.80	50.26	+2	−2	5.50	51.12	+2	+7	1.12	46.74	−1	+5
25	15.34	44.87	0	−6	10.63	50.37	+3	+1	5.33	51.05	+1	+7	1.01	46.51	−2	+3
26	15.20	45.12	+1	−3	10.46	50.47	+3	+4	5.16	50.98	0	+6	0.89	46.28	−2	0
27	15.06	45.36	+2	−1	10.29	50.57	+2	+6	5.00	50.91	−1	+5	0.78	46.05	−3	−4
28	14.92	45.60	+3	+3	10.12	50.67	+2	+7	4.84	50.83	−2	+2	0.67	45.81	−2	−7
29	14.78	45.84	+3	+5	9.95	50.76	+1	+7	4.68	50.74	−3	−2	0.56	45.57	−2	−9
30	14.63	46.07	+2	+7	9.78	50.84	0	+6	4.52	50.65	−3	−5	0.45	45.32	0	−10
31	14.48	46.30	+1	+8	9.60	50.92	−2	+3	4.36	50.55	−2	−8	0.35	45.07	+1	−9
32					9.43	51.00	−2	+1					0.25	44.81	+2	−6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
+82° 18′ 30″	7.471	+7.404	+82° 18′ 40″	7.474	+7.407	+82° 18′ 50″	7.477	+7.410
40	7.474	+7.407	50	7.477	+7.410	60	7.480	+7.412

$\alpha_{1938.0} = 20^h\ 47^m\ 11.^s90$ $\delta_{1938.0} = +82°\ 18'\ 12.''12$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Sa) Octantis 4 G. $5^{m}.63$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$1^h\,40^m$	$-85°\,5'$	in $0.^s01$	in $0.''01$	$1^h\,40^m$	$-85°\,5'$	in $0.^s01$	in $0.''01$	$1^h\,40^m$	$-85°\,4'$	in $0.^s01$	in $0.''01$	$1^h\,40^m$	$-85°\,4'$	in $0.^s01$	in $0.''01$
1	$46.^s29$	$15.''94$	−5	0	$38.^s05$	$13.''82$	+3	+6	$31.^s71$	$67.''38$	+4	+6	$27.^s32$	$57.''02$	+5	−5
2	46.03	15.96	−3	+2	37.80	13.65	+5	+5	31.52	67.09	+6	+4	27.24	56.65	+3	−8
3	45.77	15.98	−1	+4	37.54	13.49	+6	+3	31.33	66.79	+7	+1	27.15	56.29	0	−9
4	45.50	15.99	+1	+6	37.29	13.31	+7	−1	31.15	66.50	+6	−2	27.08	55.92	−3	−8
5	45.24	16.00	+3	+5	37.04	13.13	+6	−4	30.97	66.19	+4	−6	27.00	55.55	−5	−5
6	44.97	16.00	+6	+4	36.79	12.94	+3	−8	30.79	65.89	+2	−8	26.93	55.18	−6	−2
7	44.70	15.99	+7	+1	36.55	12.75	+1	−9	30.61	65.58	−1	−9	26.86	54.81	−5	+3
8	44.43	15.98	+7	−2	36.31	12.56	−3	−9	30.44	65.27	−4	−8	26.80	54.44	−4	+6
9	44.16	15.95	+5	−6	36.07	12.36	−5	−7	30.27	64.95	−6	−5	26.74	54.06	−1	+9
10	43.89	15.93	+2	−9	35.83	12.15	−6	−4	30.10	64.63	−6	−1	26.69	53.69	+2	+9
11	43.62	15.89	−1	−10	35.59	11.94	−6	+1	29.94	64.31	−5	+4	26.64	53.32	+4	+8
12	43.35	15.85	−4	−9	35.35	11.73	−4	+5	29.78	63.99	−2	+7	26.60	52.95	+5	+5
13	43.08	15.81	−6	−6	35.12	11.51	−2	+8	29.62	63.66	0	+9	26.56	52.57	+5	+2
14	42.81	15.76	−6	−2	34.89	11.28	+1	+9	29.47	63.33	+3	+9	26.52	52.20	+4	−2
15	42.54	15.70	−6	+3	34.66	11.05	+4	+9	29.32	63.00	+5	+7	26.49	51.82	+2	−5
16	42.27	15.64	−3	+7	34.43	10.82	+5	+6	29.17	62.67	+5	+4	26.46	51.45	0	−6
17	42.00	15.57	0	+10	34.21	10.58	+5	+3	29.03	62.33	+5	0	*)26.43	51.08	−3	−6
18	41.73	15.49	+2	+10	33.98	10.33	+4	−1	28.89	61.99	+3	−3	26.41	50.70	−4	−6
19	41.47	15.41	+4	+9	33.76	10.09	+2	−4	28.76	61.65	+1	−5	26.39	50.33	−5	−4
20	41.20	15.32	+5	+6	33.55	9.83	0	−6	28.62	61.30	−1	−6	26.38	49.95	−6	−2
21	40.93	15.23	+5	+2	33.33	9.58	−3	−6	28.50	60.95	−4	−6	26.37	49.58	−5	+1
22	40.66	15.13	+3	−2	33.12	9.32	−4	−6	28.37	60.60	−5	−5	26.36	49.21	−3	+3
23	40.40	15.02	+1	−4	32.91	9.05	−5	−4	28.25	60.25	−6	−3	26.36	48.84	−1	+5
24	40.13	14.91	−1	−6	32.70	8.78	−6	−2	28.13	59.90	−5	0	26.36	48.46	+2	+6
25	39.87	14.79	−3	−6	32.50	8.51	−5	+1	28.02	59.55	−4	+2	26.37	48.09	+4	+5
26	39.60	14.67	−5	−5	32.30	8.23	−3	+4	27.91	59.19	−2	+5	26.38	47.72	+6	+3
27	39.34	14.54	−6	−3	32.10	7.95	−1	+5	27.80	58.83	0	+6	26.39	47.35	+7	0
28	39.08	14.41	−5	−1	31.90	7.67	+2	+6	27.70	58.47	+3	+6	26.41	46.98	+6	−4
29	38.82	14.27	−4	+2	31.71	7.38	+4	+6	27.60	58.11	+5	+5	26.43	46.61	+4	−7
30	38.56	14.12	−2	+4					27.50	57.75	+6	+2	26.45	46.25	+1	−9
31	38.31	13.97	0	+6					27.41	57.38	+7	−1	26.48	45.88	−2	−9
32	38.05	13.82	+3	+6					27.32	57.02	+5	−5				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 4′ 40″	11.655	−11.612	−85° 4′ 50″	11.661	−11.618	−85° 5′ 10″	11.674	−11.631
50	11.661	−11.618	60	11.668	−11.625	20	11.681	−11.638

$\alpha_{1938.0} = 1^h\ 40^m\ 46.^s39$ $\qquad$ $\delta_{1938.0} = -85°\ 5'\ 0.''14$

*) Tag der doppelten unteren Kulmination: April 17.

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Sa) Octantis 4 G. $5^m.63$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder in		Juni AR.	Juni Dekl.	Juni ☾ Glieder in		Juli AR.	Juli Dekl.	Juli ☾ Glieder in		August AR.	August Dekl.	August ☾ Glieder in	
	$1^h 40^m$	−85° 4′	0.01s	0.01″	$1^h 40^m$	−85° 4′	0.01s	0.01″	$1^h 40^m$	−85° 4′	0.01s	0.01″	$1^h 40^m$	−85° 4′	0.01s	0.01″
1	26.48s	45.88″	−2	−9	29.27s	35.55″	−5	+4	34.87s	28.76″	+1	+10	42.20s	26.69″	+5	+1
2	26.51	45.52	−5	−7	29.42	35.26	−3	+8	35.09	28.61	+4	+9	42.44	26.72	+3	−2
3	26.55	45.15	−6	−3	29.57	34.98	0	+10	35.32	28.47	+5	+7	42.68	26.75	0	−5
4	26.59	44.79	−6	+1	29.72	34.70	+2	+10	35.54	28.33	+5	+3	42.92	26.79	−2	−6
5	26.64	44.43	−5	+6	29.88	34.42	+4	+8	35.77	28.19	+4	0	43.16	26.83	−4	−5
6	26.69	44.07	−2	+9	30.04	34.15	+5	+5	36.00	28.06	+2	−3	43.39	26.88	−5	−4
7	26.75	43.71	+1	+10	30.20	33.88	+5	+1	36.23	27.93	−1	−5	43.63	26.94	−6	−2
8	26.80	43.36	+3	+9	30.37	33.61	+3	−2	36.46	27.81	−3	−6	43.87	27.00	−5	+1
9	26.87	43.01	+5	+7	30.54	33.35	+1	−5	36.69	27.70	−5	−5	44.10	27.07	−4	+3
10	26.93	42.66	+5	+3	30.71	33.10	−1	−6	36.92	27.59	−5	−3	44.33	27.14	−2	+5
11	27.00	42.31	+4	0	30.88	32.84	−3	−6	37.15	27.49	−5	−1	44.56	27.22	0	+6
12	27.07	41.96	+2	−3	31.06	32.60	−5	−5	37.39	27.39	−4	+2	44.79	27.30	+3	+6
13	27.15	41.61	0	−5	31.23	32.35	−5	−3	37.63	27.30	−3	+4	45.02	27.39	+5	+4
14	27.23	41.27	−2	−6	31.42	32.11	−5	−1	37.86	27.22	−1	+5	45.25	27.49	+6	+2
15	27.31	40.93	−4	−6	31.60	31.88	−4	+2	38.10	27.14	+1	+6	45.48	27.59	+6	−1
16	27.40	40.59	−5	−5	31.79	31.65	−2	+4	38.34	27.07	+4	+5	45.70	27.70	+5	−5
17	27.49	40.25	−5	−2	31.97	31.42	0	+5	38.58	27.00	+6	+3	45.92	27.81	+3	−8
18	27.59	39.92	−5	0	32.17	31.20	+2	+5	38.82	26.94	+6	0	46.14	27.93	0	−10
19	27.68	39.59	−4	+2	32.36	30.98	+5	+4	39.06	26.88	+6	−3	46.36	28.06	−2	−10
20	27.79	39.26	−2	+4	32.56	30.77	+6	+2	39.30	26.83	+5	−7	46.58	28.19	−5	−7
21	27.89	38.94	+1	+5	32.76	30.56	+7	−1	39.54	26.79	+2	−9	46.80	28.32	−6	−4
22	28.00	38.61	+4	+5	32.96	30.36	+6	−5	39.78	26.75	−1	−10	47.01	28.47	−5	+1
23	28.11	38.29	+6	+4	33.16	30.16	+4	−8	40.03	26.72	−4	−9	47.22	28.62	−4	+5
24	28.23	37.98	+7	+1	33.37	29.97	+1	−10	40.27	26.69	−5	−6	47.43	28.77	−1	+8
25	28.35	37.66	+7	−3	33.58	29.78	−2	−10	40.51	26.67	−6	−2	47.64	28.93	+2	+9
26	28.47	37.35	+5	−6	33.79	29.60	−5	−7	40.75	26.66	−5	+3	47.84	29.09	+4	+8
27	28.60	37.04	+2	−9	34.00	29.42	−6	−4	40.99	26.65	−3	+7	48.04	29.26	+5	+6
28	28.72	36.74	−1	−10	34.22	29.25	−6	+1	41.24	26.64	0	+9	48.24	29.43	+5	+2
29	28.85	36.43	−4	−8	34.43	29.08	−4	+6	41.48	26.65	+3	+10	48.43	29.61	+4	−1
30	28.99	36.14	−6	−5	34.65	28.92	−1	+9	41.72	26.66	+5	+8	48.63	29.79	+2	−4
31	29.13	35.84	−6	−1	34.87	28.76	+1	+10	41.96	26.67	+5	+5	48.82	29.98	−1	−6
32	29.27	35.55	−5	+4					42.20	26.69	+5	+1	49.00	30.18	−3	−6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 4′ 20″	11.641	−11.598	−85° 4′ 30″	11.648	−11.605	−85° 4′ 40″	11.655	−11.612
30	11.648	−11.605	40	11.655	−11.612	50	11.661	−11.618

$\alpha_{1938.0} = 1^h\ 40^m\ 46^s.39$ $\delta_{1938.0} = -85°\ 5'\ 0''.14$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Sa) Octantis 4 G. $5^m.63$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		—	in			—	in			—	in			—	in	
	$1^h\ 40^m$	85° 4′	$0^s.01$	0″.01	$1^h\ 40^m$	85° 4′	$0^s.01$	0″.01	$1^h\ 40^m$	85° 4′	$0^s.01$	0″.01	$1^h\ 40^m$	85° 4′	$0^s.01$	0″.01
	s	″			s	″			s	″			s	″		
1	49.00	30.18	−3	−6	53.02	37.92	−6	−1	52.95	48.17	+3	+6	48.65	56.26	+6	0
2	49.19	30.38	−5	−4	53.09	38.23	−5	+2	52.87	48.49	+5	+5	48.45	56.47	+6	−3
3	49.37	30.58	−6	−2	53.16	38.54	−3	+4	52.78	48.80	+6	+2	48.24	56.67	+5	−6
4	49.55	30.79	−6	0	53.22	38.85	−1	+6	52.69	49.11	+6	−1	48.03	56.86	+2	−9
5	49.73	31.00	−4	+3	53.28	39.17	+1	+6	52.59	49.41	+5	−4	47.82	57.05	−1	−10
6	49.90	31.22	−3	+5	53.33	39.48	+3	+6	52.49	49.72	+3	−7	47.61	57.24	−3	−8
7	50.07	31.44	0	+6	53.38	39.80	+5	+4	52.39	50.02	+1	−9	47.39	57.42	−5	−5
8	50.24	31.67	+2	+6	53.42	40.12	+6	+2	52.28	50.32	−2	−9	47.17	57.59	−6	−1
9	50.40	31.90	+4	+5	53.46	40.43	+6	−2	52.17	50.62	−4	−7	46.95	57.76	−5	+3
10	50.56	32.14	+6	+3	53.49	40.75	+5	−5	52.05	50.91	−6	−3	46.73	57.93	−3	+7
11	50.72	32.38	+6	0	53.52	41.08	+2	−8	51.93	51.20	−6	+1	46.50	58.09	0	+9
12	50.87	32.62	+6	−3	53.55	41.40	−1	−9	51.80	51.49	−4	+5	46.27	58.24	+3	+9
13	51.02	32.87	+4	−6	53.57	41.72	−3	−8	51.67	51.77	−1	+8	46.04	58.39	+5	+8
14	51.17	33.12	+1	−9	53.59	42.05	−5	−6	51.54	52.06	+1	+9	45.80	58.53	+5	+4
15	51.31	33.38	−1	−9	53.60	42.37	−6	−2	51.40	52.33	+4	+8	45.56	58.67	+5	+1
16	51.45	33.64	−4	−8	53.60	42.70	−5	+2	51.26	52.61	+5	+6	45.32	58.80	+3	−3
17	51.58	33.90	−5	−5	53.60 53.60	43.02 43.35	−3 0	+6 +8	51.11	52.88	+5	+2	45.08	58.92	0	−5
18	51.71	34.17	−6	−1	53.59	43.67	+2	+8	50.96	53.15	+4	−1	44.84	59.04	−2	−6
19	51.84	34.44	−4	+3	53.57	44.00	+4	+7	50.80	53.41	+2	−4	44.60	59.15	−4	−5
20	51.96	34.71	−2	+7	53.55	44.32	+5	+4	50.64	53.67	0	−6	44.35	59.26	−5	−4
21	52.08	34.99	+1	+8	53.53	44.65	+5	+1	50.48	53.93	−3	−6	44.10	59.36	−6	−1
22	52.19	35.27	+3	+8	53.50	44.97	+4	−2	50.31	54.18	−4	−5	43.85	59.45	−5	+1
23	52.30	35.55	+5	+6	53.47	45.29	+1	−5	50.14	54.43	−5	−3	43.59	59.54	−4	+3
24	52.41	35.84	+5	+3	53.43	45.62	−1	−6	49.97	54.67	−5	−1	43.34	59.62	−2	+5
25	52.51	36.13	+5	0	53.39	45.94	−3	−6	49.79	54.91	−5	+2	43.09	59.70	0	+6
26	52.60	36.42	+3	−3	53.34	46.26	−5	−5	49.61	55.15	−3	+4	42.83	59.77	+3	+6
27	52.70	36.71	0	−5	53.29	46.58	−6	−2	49.42	55.38	−1	+5	42.57	59.83	+5	+4
28	52.79	37.01	−2	−6	53.23	46.90	−5	0	49.24	55.61	+1	+6	42.31	59.89	+6	+2
29	52.87	37.31	−4	−5	53.17	47.22	−4	+3	49.04	55.83	+4	+5	42.05	59.94	+6	−2
30	52.95	37.61	−6	−4	53.10	47.54	−2	+5	48.85	56.05	+5	+3	41.79	59.99	+5	−5
31	53.02	37.92	−6	−1	53.03	47.85	0	+6	48.65	56.26	+6	0	41.53	60.03	+3	−8
32					52.95	48.17	+3	+6					41.27	60.06	+1	−10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 4′ 30″	11.648	−11.605	−85° 4′ 40″	11.655	−11.612	−85° 5′ 0″	11.668	−11.625
40	11.655	−11.612	50	11.661	−11.618	10	11.674	−11.631

$\alpha_{1938.0} = 1^h\ 40^m\ 46^s.39$ $\delta_{1938.0} = -85°\ 5'\ 0''.14$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Sb) ξ Mensae $5^m.85$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$5^h\,5^m$	−82° 33′	in $0^s.01$	$0''.01$	$5^h\,5^m$	−82° 33′	in $0^s.01$	$0''.01$	$5^h\,5^m$	−82° 33′	in $0^s.01$	$0''.01$	$5^h\,5^m$	−82° 33′	in $0^s.01$	$0''.01$
1	58.23	34.11	−2	−5	54.01	41.57	−1	+6	48.83	44.22	0	+7	42.93	42.31	+3	+3
2	58.13	34.41	−2	−3	53.84	41.73	0	+8	48.63	44.23	+1	+8	42.75	42.17	+3	−1
3	58.03	34.71	−2	+1	53.67	41.89	+2	+8	48.44	44.25	+2	+8	42.58	42.02	+2	−5
4	57.93	35.00	−1	+4	53.50	42.05	+3	+6	48.25	44.25	+3	+5	42.40	41.87	+1	−8
5	57.82	35.29	0	+7	53.32	42.20	+3	+4	48.05	44.25	+3	+1	42.22	41.72	−1	−9
6	57.71	35.58	+1	+8	53.14	42.34	+3	0	47.86	44.25	+3	−3	42.05	41.56	−2	−7
7	57.60	35.86	+2	+8	52.97	42.48	+3	−4	47.66	44.24	+2	−6	41.88	41.40	−3	−4
8	57.48	36.14	+3	+6	52.79	42.62	+2	−7	47.46	44.22	+1	−8	41.70	41.23	−3	0
9	57.37	36.42	+4	+2	52.61	42.75	0	−9	47.27	44.20	−1	−8	41.54	41.06	−3	+4
10	57.25	36.69	+4	−2	52.43	42.87	−1	−8	47.07	44.18	−2	−7	41.37	40.88	−2	+7
11	57.12	36.96	+3	−6	52.25	42.99	−2	−5	46.88	44.15	−3	−3	41.20	40.70	−1	+8
12	57.00	37.22	+1	−8	52.06	43.11	−3	−1	46.69	44.11	−3	+1	41.04	40.51	0	+8
13	56.87	37.48	−1	−9	51.88	43.22	−3	+3	46.49	44.07	−3	+5	40.88	40.32	+1	+6
14	56.74	37.73	−2	−7	51.70	43.32	−2	+6	46.30	44.02	−1	+8	40.71	40.13	+2	+3
15	56.61	37.98	−3	−4	51.51	43.42	−1	+8	46.11	43.97	0	+8	40.56	39.93	+2	−1
16	56.47	38.23	−4	0	51.32	43.51	0	+9	45.91	43.91	+1	+7	40.40	39.73	+2	−4
17	56.33	38.47	−3	+5	51.13	43.60	+1	+7	45.72	43.85	+2	+5	40.24	39.52	+1	−6
18	56.19	38.71	−2	+8	50.94	43.68	+2	+4	45.53	43.78	+2	+2	40.09	39.31	0	−8
19	56.05	38.94	−1	+9	50.75	43.75	+2	0	45.34	43.71	+2	−2	39.94	39.10	−1	−8
20	55.90	39.17	0	+8	50.56	43.82	+2	−3	45.14	43.63	+1	−5	39.79	38.88	−2	−7
21	55.75	39.40	+1	+6	50.37	43.89	+1	−6	44.95	43.55	0	−7	39.64	38.66	−2	−4
22	55.60	39.62	+2	+2	50.18	43.95	0	−8	44.77	43.46	0	−8	39.50	38.43	−2	−1
23	55.45	39.84	+2	−1	49.98	44.00	−1	−8	44.58	43.37	−1	−7	39.35	38.21	−2	+2
24	55.30	40.05	+1	−4	49.79	44.05	−1	−7	44.39	43.27	−2	−6	39.21	37.97	−1	+5
25	55.15	40.26	0	−7	49.60	44.10	−2	−4	44.21	43.17	−2	−3	39.07	37.74	0	+7
26	54.99	40.46	0	−8	49.41	44.14	−2	−1	44.02	43.06	−2	0	38.93	37.50	+1	+8
27	54.83	40.66	−1	−7	49.21	44.17	−2	+2	43.84	42.95	−1	+4	38.80	37.26	+3	+7
28	54.67	40.85	−2	−6	49.02	44.20	−1	+5	43.66	42.83	−1	+7	38.66	37.01	+3	+4
29	54.51	41.04	−2	−3	48.83	44.22	0	+7	43.47	42.71	+1	+8	38.53	36.77	+3	0
30	54.34	41.22	−2	0					43.29	42.58	+2	+8	38.40	36.51	+3	−3
31	54.18	41.39	−2	+3					43.11	42.45	+3	+6	38.28	36.26	+2	−7
32	54.01	41.57	−1	+6					42.93	42.31	+3	+3				

δ	sec δ	tg δ	δ	sec δ	tg δ
−82° 33′ 30″	7.721	−7.656	−82° 33′ 40″	7.724	−7.659
40	7.724	−7.659	50	7.727	−7.662

$\alpha_{1938.0} = 5^h\ 5^m\ 51^s.36$ $\delta_{1938.0} = -82°\ 33'\ 22''.98$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Sb) ξ Mensae $5^{m}_{.}85$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
		—	in			—	in			—	in			—	in	
	$5^h\ 5^m$	82° 33′	$0^s.01$	$0''.01$	$5^h\ 5^m$	82° 33′	$0^s.01$	$0''.01$	$5^h\ 5^m$	82° 33′	$0^s.01$	$0''.01$	$5^h\ 5^m$	82° 33′	$0^s.01$	$0''.01$
1	$38^s.28$	$36''.26$	+2	−7	$35^s.56$	$27''.06$	−3	−4	$35^s.50$	$17''.26$	−2	+7	$38^s.02$	$8''.69$	+1	+5
2	38.15	36.00	0	−8	35.52	26.73	−3	0	35.54	16.94	−1	+9	38.14	8.47	+2	+2
3	38.03	35.74	−1	−8	35.48	26.40	−3	+5	35.58	16.63	0	+9	38.26	8.25	+2	−2
4	37.91	35.47	−3	−6	35.44	26.08	−2	+8	35.63	16.32	+1	+7	38.38	8.04	+1	−5
5	37.79	35.20	−3	−2	35.40	25.75	−1	+9	35.68	16.01	+2	+4	38.50	7.83	0	−7
6	37.67	34.93	−3	+2	35.37	25.42	0	+8	35.73	15.70	+2	0	38.63	7.63	−1	−8
7	37.56	34.66	−3	+6	35.34	25.09	+1	+5	35.79	15.39	+1	−3	38.76	7.43	−2	−7
8	37.44	34.38	−1	+8	*)35.31	24.76	+2	+2	35.85	15.09	+1	−6	38.89	7.23	−2	−5
9	37.34	34.10	0	+8	35.29	24.43	+2	−2	35.91	14.79	0	−7	39.02	7.04	−2	−2
10	37.23	33.81	+1	+7	35.27	24.10	+1	−5	35.97	14.49	−1	−7	39.16	6.86	−2	+1
11	37.13	33.53	+2	+4	35.25	23.77	0	−7	36.04	14.20	−2	−6	39.29	6.68	−2	+4
12	37.03	33.24	+2	+1	35.23	23.44	0	−8	36.11	13.90	−2	−4	39.43	6.50	−1	+6
13	36.93	32.95	+2	−3	35.22	23.12	−1	−7	36.18	13.61	−2	−1	39.57	6.33	0	+7
14	36.83	32.66	+1	−5	35.21	22.79	−2	−6	36.25	13.32	−2	+2	39.71	6.17	+2	+8
15	36.74	32.36	0	−7	35.20	22.46	−2	−3	36.33	13.04	−1	+5	39.85	6.01	+3	+6
16	36.65	32.06	0	−8	35.20	22.13	−2	0	36.41	12.76	0	+7	40.00	5.86	+3	+3
17	36.56	31.76	−1	−7	35.20	21.80	−2	+3	36.49	12.48	+1	+8	40.15	5.71	+3	−1
18	36.48	31.46	−2	−5	35.20	21.47	−1	+5	36.57	12.20	+2	+7	40.29	5.56	+3	−5
19	36.39	31.16	−2	−2	35.21	21.14	0	+7	36.66	11.93	+3	+5	40.44	5.43	+2	−7
20	36.31	30.85	−2	+1	35.22	20.82	+2	+8	36.75	11.66	+4	+1	40.59	5.29	0	−9
21	36.24	30.54	−1	+4	35.23	20.49	+3	+7	36.84	11.39	+4	−2	40.74	5.16	−1	−8
22	36.16	30.23	0	+7	35.24	20.16	+4	+4	36.94	11.13	+3	−6	40.89	5.04	−2	−5
23	36.09	29.92	+1	+8	35.26	19.83	+4	0	37.04	10.87	+1	−8	41.05	4.92	−3	−1
24	36.02	29.61	+2	+8	35.28	19.51	+3	−4	37.14	10.61	0	−9	41.20	4.81	−3	+3
25	35.95	29.30	+3	+6	35.30	19.18	+2	−7	37.24	10.36	−2	−7	41.35	4.71	−2	+6
26	35.89	28.98	+4	+2	35.33	18.85	0	−9	37.35	10.11	−3	−3	41.51	4.61	−1	+8
27	35.83	28.66	+3	−2	35.35	18.53	−1	−8	37.45	9.86	−3	+1	41.67	4.51	0	+8
28	35.77	28.34	+2	−6	35.39	18.21	−3	−5	37.56	9.62	−3	+5	41.82	4.43	+1	+6
29	35.71	28.02	+1	−8	35.42	17.89	−3	−1	37.67	9.38	−2	+8	41.98	4.35	+2	+3
30	35.66	27.70	−1	−9	35.46	17.57	−3	+3	37.79	9.15	0	+9	42.14	4.27	+2	−1
31	35.61	27.38	−2	−7	35.50	17.26	−2	+7	37.90	8.92	+1	+8	42.30	4.20	+1	−4
32	35.56	27.06	−3	−4					38.02	8.69	+1	+5	42.46	4.14	0	−6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−82° 33′ 0″	7.712	−7.647	−82° 33′ 10″	7.715	−7.650	−82° 33′ 30″	7.721	−7.656
10	7.715	−7.650	20	7.718	−7.653	40	7.724	−7.659

$\alpha_{1938.0} = 5^h\ 5^m\ 51^s.36$ $\delta_{1938.0} = -82°\ 33'\ 22''.98$

*) Tag der doppelten unteren Kulmination: Juni 8.

Sb) ξ Mensae $5^m.85$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder	
	$5^h\ 5^m$	−82° 33′	in $0^s.01$	in $0''.01$	$5^h\ 5^m$	−82° 33′	in $0^s.01$	in $0''.01$
1	42.46	4.14	0	−6	47.36	5.12	−2	−7
2	42.63	4.08	−1	−8	47.52	5.25	−2	−4
3	42.79	4.03	−1	−7	47.67	5.38	−2	−1
4	42.95	3.99	−2	−6	47.82	5.52	−2	+2
5	43.12	3.95	−2	−3	47.97	5.67	−1	+5
6	43.28	3.92	−2	0	48.12	5.82	0	+7
7	43.45	3.89	−2	+3	48.27	5.98	+1	+8
8	43.61	3.87	−1	+5	48.42	6.14	+2	+8
9	43.78	3.86	0	+7	48.57	6.31	+3	+5
10	43.94	3.85	+1	+8	48.71	6.49	+3	+2
11	44.11	3.85	+2	+7	48.85	6.67	+3	−1
12	44.27	3.85	+3	+4	49.00	6.86	+2	−5
13	44.44	3.86	+3	+1	49.14	7.05	+1	−7
14	44.61	3.88	+3	−3	49.28	7.25	0	−8
15	44.77	3.90	+2	−6	49.42	7.45	−1	−7
16	44.94	3.93	+1	−8	49.55	7.66	−2	−4
17	45.10	3.97	0	−8	49.68	7.87	−3	0
18	45.27	4.01	−2	−6	49.81	8.09	−3	+4
19	45.43	4.06	−3	−2	49.94	8.31	−2	+7
20	45.60	4.11	−3	+1	50.07	8.54	0	+8
21	45.76	4.17	−2	+5	50.20	8.78	+1	+8
22	45.93	4.24	−1	+8	50.32	9.02	+2	+5
23	46.09	4.31	0	+8	50.44	9.26	+2	+2
24	46.25	4.39	+1	+7	50.56	9.51	+2	−1
25	46.41	4.48	+2	+4	50.68	9.76	+1	−5
26	46.58	4.57	+2	+1	50.79	10.02	0	−7
27	46.74	4.67	+2	−3	50.90	10.28	−1	−8
28	46.89	4.77	+1	−6	51.01	10.55	−1	−7
29	47.05	4.88	0	−7	51.11	10.82	−2	−5
30	47.21	5.00	−1	−8	51.22	11.09	−2	−3
31	47.36	5.12	−2	−7	51.32	11.37	−2	0
32					51.42	11.65	−2	+3

Tag	November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
	$5^h\ 5^m$	−82° 33′	in $0^s.01$	in $0''.01$	$5^h\ 5^m$	−82° 33′	in $0^s.01$	in $0''.01$
1	51.42	11.65	−2	+3	53.02	21.42	+1	+8
2	51.51	11.94	−1	+6	53.02	21.77	+2	+7
3	51.60	12.23	0	+7	53.02	22.12	+3	+5
4	51.69	12.52	+2	+8	53.02	22.47	+4	+2
5	51.78	12.82	+3	+7	53.01	22.82	+3	−2
6	51.87	13.12	+3	+4	53.00	23.17	+2	−6
7	51.95	13.42	+3	0	52.99	23.52	+1	−8
8	52.03	13.73	+3	−4	52.97 52.95	23.87 24.22	0 −2	−8 −6
9	52.11	14.04	+2	−7	52.93	24.57	−3	−3
10	52.18	14.35	0	−8	52.90	24.92	−3	+1
11	52.25	14.67	−1	−8	52.87	25.27	−3	+5
12	52.32	14.99	−2	−5	52.84	25.62	−2	+8
13	52.38	15.31	−3	−1	52.80	25.96	0	+9
14	52.44	15.64	−3	+2	52.77	26.31	+1	+8
15	52.50	15.97	−2	+6	52.72	26.65	+2	+5
16	52.56	16.30	−1	+8	52.68	26.99	+2	+1
17	52.61	16.63	0	+8	52.63	27.33	+2	−2
18	52.66	16.96	+1	+6	52.58	27.66	+1	−5
19	52.71	17.29	+2	+3	52.52	28.00	0	−7
20	52.75	17.63	+2	0	52.46	28.33	−1	−7
21	52.79	17.97	+1	−3	52.40	28.66	−2	−7
22	52.83	18.31	+1	−6	52.33	28.99	−2	−5
23	52.86	18.65	0	−7	52.27	29.32	−2	−2
24	52.90	18.99	−1	−7	52.19	29.64	−2	+1
25	52.92	19.34	−2	−6	52.12	29.96	−2	+3
26	52.95	19.68	−2	−4	52.04	30.28	−1	+6
27	52.97	20.03	−2	−1	51.96	30.60	0	+7
28	52.99	20.37	−2	+2	51.88	30.91	+2	+7
29	53.00	20.72	−1	+5	51.80	31.23	+3	+6
30	53.01	21.07	0	+7	51.71	31.53	+4	+3
31	53.02	21.42	+1	+8	51.62	31.84	+4	0
32					51.52	32.15	+3	−4

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−82° 33′ 0″	7.712	−7.647	−82° 33′ 10″	7.715	−7.650	−82° 33′ 30″	7.721	−7.656
10	7.715	−7.650	20	7.718	−7.653	40	7.724	−7.659

$\alpha_{1938.0} = 5^h\ 5^m\ 51^s.36$ $\delta_{1938.0} = -82°\ 33'\ 22''.98$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Sc) ζ Octantis $5^m.38$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
		—	in			—	in			—	in			—	in	
	$9^h 6^m$	85° 24′	$0^s.01$	$0''.01$	$9^h 6^m$	85° 25′	$0^s.01$	$0''.01$	$9^h 6^m$	85° 25′	$0^s.01$	$0''.01$	$9^h 6^m$	85° 25′	$0^s.01$	$0''.01$
	s	"			s	"			s	"			s	"		
1	17.92	59.03	+4	− 6	19.74	10.42	−4	−2	17.28	21.19	−5	+3	11.10	30.40	+1	+ 9
2	18.05	59.37	+2	− 6	19.72	10.80	−5	+1	17.13	21.53	−5	+6	10.85	30.64	+3	+ 7
3	18.18	59.71	0	− 6	19.70	11.18	−5	+4	16.98	21.88	−3	+8	10.61	30.87	+5	+ 3
4	18.30	60.05	−2	− 4	19.67	11.57	−4	+7	16.82	22.22	−1	+9	10.36	31.10	+6	− 1
5	18.41	60.39	−4	− 1	19.63	11.95	−2	+9	16.66	22.55	+2	+8	10.11	31.32	+5	− 5
6	18.52	60.74	−5	+ 3	19.59	12.33	0	+ 9	16.50	22.89	+4	+6	9.86	31.54	+3	− 8
7	18.63	61.09	−5	+ 6	{19.54 / 19.49}	12.71 / 13.10	+3 / +6	+ 8 / + 5	16.33	23.22	+6	+2	9.61	31.76	0	− 8
8	18.73	61.44	−3	+ 9	19.44	13.48	+7	0	16.16	23.55	+6	−2	9.35	31.97	−3	− 7
9	18.83	61.80	−1	+10	19.38	13.86	+6	−4	15.99	23.88	+5	−6	9.09	32.18	−5	− 5
10	18.93	62.16	+2	+10	19.32	14.24	+4	−7	15.81	24.20	+3	−8	8.83	32.38	−6	− 1
11	19.02	62.52	+4	+ 7	19.25	14.62	+1	−8	15.63	24.52	0	−8	8.57	32.57	−6	+ 2
12	19.10	62.88	+6	+ 3	19.18	14.99	−2	−8	15.44	24.84	−3	−7	8.31	32.77	−5	+ 5
13	19.18	63.24	+7	− 1	19.10	15.37	−4	−6	15.26	25.15	−6	−4	8.05	32.95	−3	+ 6
14	19.26	63.60	+6	− 5	19.02	15.75	−6	−2	15.06	25.46	−7	0	7.78	33.13	0	+ 6
15	19.33	63.97	+3	− 8	18.94	16.12	−7	+1	14.87	25.77	−6	+3	7.51	33.31	+2	+ 4
16	19.39	64.34	0	− 9	18.85	16.49	−6	+4	14.67	26.07	−4	+5	7.24	33.48	+4	+ 2
17	19.45	64.71	−3	− 8	18.75	16.87	−4	+6	14.47	26.37	−2	+6	6.97	33.65	+5	− 1
18	19.50	65.08	−6	− 5	18.65	17.24	−1	+6	14.26	26.66	+1	+5	6.70	33.81	+5	− 3
19	19.55	65.46	−7	− 1	18.55	17.61	+1	+4	14.06	26.96	+3	+3	6.43	33.97	+5	− 5
20	19.60	65.84	−7	+ 2	18.44	17.97	+4	+2	13.84	27.24	+5	+1	6.16	34.12	+3	− 7
21	19.64	66.21	−5	+ 4	18.33	18.34	+5	−1	13.63	27.53	+6	−2	5.88	34.26	+1	− 6
22	19.67	66.59	−3	+ 6	18.22	18.70	+5	−3	13.41	27.81	+5	−4	5.61	34.41	−1	− 5
23	19.70	66.97	0	+ 5	18.09	19.06	+5	−5	13.19	28.09	+4	−6	5.33	34.54	−3	− 3
24	19.73	67.35	+3	+ 3	17.97	19.42	+3	−7	12.97	28.36	+2	−7	5.06	34.67	−5	0
25	19.75	67.73	+4	+ 1	17.84	19.78	+1	−7	12.75	28.63	0	−6	4.78	34.80	−5	+ 4
26	19.76	68.12	+5	− 2	17.70	20.14	−1	−6	12.52	28.90	−2	−4	4.50	34.92	−5	+ 7
27	19.77	68.50	+5	− 4	17.57	20.49	−3	−3	12.29	29.16	−4	−2	4.22	35.04	−3	+ 9
28	19.77	68.88	+4	− 6	17.42	20.84	−5	0	12.06	29.42	−5	+2	3.94	35.15	0	+10
29	19.77	69.27	+2	− 7	17.28	21.19	−5	+3	11.82	29.67	−5	+5	3.66	35.25	+3	+ 8
30	19.77	69.65	0	− 6					11.58	29.92	−4	+8	3.38	35.35	+5	+ 5
31	19.76	70.04	−2	− 5					11.34	30.16	−2	+9	3.10	35.45	+6	+ 1
32	19.74	70.42	−4	− 2					11.10	30.40	+1	+9				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 24′ 50″	12.507	−12.467	−85° 25′ 10″	12.522	−12.482	−85° 25′ 30″	12.537	−12.497
60	12.514	−12.474	20	12.529	−12.489	40	12.545	−12.505

$\alpha_{1938.0} = 9^h\ 6^m\ 4^s.34$ $\delta_{1938.0} = -85°\ 25'\ 3''.52$

Obere Kulmination Greenwich

Sc) ζ Octantis $5^m.38$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$9^h\ 5^m$	−85° 25′	in $0^s.01$	in $0''.01$	$9^h\ 5^m$	−85° 25′	in $0^s.01$	in $0''.01$	$9^h\ 5^m$	−85° 25′	in $0^s.01$	in $0''.01$	$9^h\ 5^m$	−85° 25′	in $0^s.01$	in $0''.01$
1	63.10	35.45	+6	+1	54.54	35.78	0	−9	47.77	31.43	−7	−3	43.99	23.32	−2	+6
2	62.82	35.54	+6	−4	54.28	35.70	−3	−8	47.59	31.22	−7	+1	43.93	23.03	+1	+5
3	62.54	35.62	+4	−7	54.03	35.62	−6	−5	47.41	31.00	−6	+3	43.88	22.72	+3	+2
4	62.25	35.70	+1	−9	53.77	35.54	−7	−1	47.24	30.78	−4	+5	43.84	22.42	+4	−1
5	61.97	35.78	−2	−9	53.52	35.45	−7	+2	47.07	30.55	−1	+5	43.80	22.12	+5	−3
6	61.69	35.85	−4	−7	53.27	35.36	−5	+4	46.90	30.32	+2	+4	43.77	21.81	+4	−6
7	61.41	35.91	−6	−3	53.02	35.26	−2	+5	46.74	30.09	+4	+1	43.74	21.51	+3	−7
8	61.13	35.97	−7	0	52.77	35.15	0	+5	46.58	29.85	+5	−1	*)43.71	21.20	+1	−7
9	60.84	36.02	−6	+3	52.53	35.04	+3	+3	46.43	29.62	+5	−4	43.69	20.89	−1	−6
10	60.56	36.07	−4	+5	52.28	34.93	+4	0	46.28	29.37	+4	−6	43.68	20.59	−2	−4
11	60.28	36.11	−1	+6	52.04	34.81	+5	−2	46.13	29.13	+3	−7	43.67	20.28	−4	−2
12	60.00	36.15	+1	+5	51.80	34.68	+5	−4	45.98	28.88	+1	−6	43.66	19.97	−5	+1
13	59.72	36.18	+3	+3	51.56	34.55	+4	−6	45.84	28.63	−1	−5	43.66	19.67	−5	+5
14	59.44	36.21	+5	0	51.32	34.42	+2	−7	45.70	28.37	−3	−3	43.67	19.36	−4	+7
15	59.16	36.23	+5	−3	51.09	34.28	0	−6	45.57	28.11	−4	0	43.68	19.05	−2	+9
16	58.88	36.25	+5	−5	50.86	34.13	−2	−4	45.44	27.85	−5	+3	43.69	18.74	+1	+9
17	58.60	36.26	+4	−6	50.63	33.98	−3	−2	45.32	27.58	−4	+6	43.71	18.44	+4	+8
18	58.32	36.26	+2	−6	50.41	33.83	−5	+1	45.20	27.32	−3	+9	43.73	18.13	+6	+5
19	58.04	36.26	0	−6	50.19	33.67	−5	+5	45.08	27.05	−1	+10	43.76	17.82	+7	+1
20	57.77	36.26	−2	−4	49.97	33.51	−4	+8	44.97	26.77	+2	+9	43.79	17.51	+6	−3
21	57.49	36.24	−4	−1	49.76	33.34	−2	+10	44.86	26.50	+5	+7	43.83	17.21	+4	−6
22	57.22	36.23	−5	+3	49.54	33.17	0	+10	44.76	26.22	+7	+3	43.88	16.90	+2	−7
23	56.94	36.21	−5	+6	49.33	32.99	+3	+9	44.66	25.94	+7	−1	43.93	16.60	−2	−7
24	56.67	36.18	−3	+9	49.12	32.81	+6	+5	44.57	25.66	+6	−5	43.98	16.29	−4	−5
25	56.40	36.15	−1	+10	48.92	32.63	+7	+1	44.48	25.37	+3	−7	44.04	15.98	−6	−2
26	56.13	36.11	+2	+10	48.72	32.44	+6	−3	44.40	25.08	0	−8	44.10	15.68	−7	+2
27	55.86	36.07	+4	+7	48.52	32.25	+4	−7	44.32	24.80	−3	−7	44.17	15.38	−5	+4
28	55.59	36.02	+6	+3	48.33	32.05	+1	−9	44.24	24.50	−6	−4	44.24	15.08	−3	+6
29	55.33	35.97	+7	−1	48.14	31.85	−2	−8	44.17	24.21	−7	−1	44.32	14.78	0	+5
30	55.06	35.91	+5	−6	47.95	31.64	−5	−6	44.11	23.92	−6	+3	44.40	14.48	+2	+3
31	54.80	35.84	+3	−8	47.77	31.43	−7	−3	44.04	23.62	−5	+5	44.49	14.18	+4	+1
32	54.54	35.78	0	−9					43.99	23.32	−2	+6	44.58	13.89	+5	−2

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 25′ 10″	12.522	−12.482	−85° 25′ 20″	12.529	−12.489	−85° 25′ 30″	12.537	−12.497
20	12.529	−12.489	30	12.537	−12.497	40	12.545	−12.505

$\alpha_{1938.0} = 9^h\ 6^m\ 4^s.34$ $\delta_{1938.0} = -85°\ 25'\ 3''.52$

*) Tag der doppelten unteren Kulmination: Aug. 8.

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Sc) ζ Octantis $5^{m}.38$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		—	in			—	in			—	in			—	in	
	$9^h\,5^m$	85° 25′	$0^s.01$	$0''.01$	$9^h\,5^m$	85° 25′	$0^s.01$	$0''.01$	$9^h\,5^m$	85° 25′	$0^s.01$	$0''.01$	$9^h\,6^m$	85° 25′	$0^s.01$	$0''.01$
1	$44^s.58$	$13''.89$	+5	−2	$49^s.36$	$6''.45$	+3	−7	$57^s.28$	$3''.31$	−4	−2	$5^s.41$	$6''.06$	−4	+6
2	44.68	13.60	+5	−5	49.58	6.26	+1	−7	57.56	3.31	−5	+1	5.66	6.25	−3	+9
3	44.78	13.31	+4	−7	49.80	6.08	−1	−6	57.84	3.31	−5	+4	5.90	6.45	−1	+10
4	44.89	13.02	+2	−7	50.03	5.91	−3	−4	58.12	3.32	−4	+7	6.14	6.65	+2	+9
5	45.00	12.74	0	−7	50.25	5.74	−4	−1	58.40	3.34	−2	+9	6.38	6.86	+4	+7
6	45.11	12.45	−2	−5	50.49	5.57	−5	+2	58.68	3.36	0	+9	6.62	7.07	+6	+3
7	45.23	12.17	−4	−3	50.72	5.41	−5	+5	58.96	3.39	+3	+8	6.85	7.29	+6	−1
8	45.35	11.90	−5	0	50.96	5.26	−3	+8	59.24	3.43	+5	+5	7.08	7.51	+5	−5
9	45.48	11.62	−5	+3	51.20	5.11	−1	+9	59.52	3.47	+6	+1	7.31	7.74	+3	−7
10	45.62	11.35	−4	+6	51.44	4.96	+1	+8	59.80	3.52	+6	−3	7.53	7.97	0	−8
11	45.75	11.08	−3	+8	51.68	4.82	+4	+6	60.08	3.58	+4	−6	7.75	8.21	−3	−7
12	45.89	10.81	0	+9	51.93	4.69	+6	+3	60.36	3.64	+1	−8	7.97	8.45	−6	−4
13	46.04	10.55	+2	+8	52.18	4.56	+6	−1	60.64	3.71	−2	−7	8.18	8.70	−7	0
14	46.19	10.29	+5	+6	52.43	4.44	+5	−4	60.91	3.78	−4	−5	8.39	8.96	−6	+3
15	46.34	10.03	+6	+2	52.69	4.32	+3	−7	61.19	3.87	−6	−2	8.60	9.22	−4	+5
16	46.50	9.78	+6	−2	52.95	4.22	+1	−8	61.47	3.96	−6	+1	8.80	9.48	−2	+5
17	46.66	9.53	+5	−5	53.21	4.11	−3	−7	61.74	4.05	−5	+4	9.00	9.75	+1	+5
18	46.83	9.29	+3	−7	53.47	4.02	−5	−4	62.01	4.15	−3	+6	9.19	10.02	+3	+2
19	47.00	9.04	0	−7	53.73	3.93	−6	−1	62.28	4.26	−1	+6	9.39	10.29	+4	0
20	47.18	8.81	−3	−5	53.99	3.84	−6	+3	62.55	4.38	+2	+4	9.57	10.58	+5	−3
21	47.36	8.57	−5	−2	54.26	3.76	−5	+5	62.82	4.50	+4	+2	9.76	10.86	+4	−5
22	47.54	8.34	−6	+1	54.53	3.69	−2	+6	63.09	4.63	+5	−1	9.94	11.15	+3	−7
23	47.73	8.11	−6	+4	54.80	3.62	0	+5	63.36	4.77	+5	−4	10.12	11.45	+1	−7
24	47.92	7.89	−4	+6	55.07	3.56	+3	+3	63.62	4.91	+4	−6	10.29	11.75	0	−6
25	48.12	7.67	−1	+6	55.34	3.50	+4	+1	63.88	5.05	+3	−7	10.46	12.05	−2	−4
26	48.31	7.46	+1	+5	55.62	3.46	+5	−2	64.14	5.21	+1	−7	10.62	12.36	−4	−2
27	48.52	7.25	+3	+2	55.89	3.42	+5	−5	64.40	5.37	−1	−6	10.78	12.67	−5	+1
28	48.72	7.04	+5	−1	56.17	3.38	+4	−7	64.65	5.53	−3	−3	10.93	12.98	−5	+5
29	48.93	6.84	+5	−4	56.44	3.35	+2	−7	64.91	5.70	−4	0	11.08	13.30	−4	+8
30	49.14	6.64	+4	−6	56.72	3.33	0	−7	65.16	5.88	−5	+3	11.23	13.62	−2	+10
31	49.36	6.45	+3	−7	57.00	3.32	−2	−5	65.41	6.06	−4	+6	11.37	13.94	+1	+10
32					57.28	3.31	−4	−2					11.51	14.27	+4	+8

δ	sec δ	tg δ	δ	sec δ	tg δ
−85° 25′ 0″	12.514	−12.474	−85° 25′ 10″	12.522	−12.482
10	12.522	−12.482	20	12.529	−12.489

$\alpha_{1938.0} = 9^h\ 6^m\ 4^s.34$ $\delta_{1938.0} = -85°\ 25'\ 3''.52$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Sd) ι Octantis $5^m.38$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
		—	in			—	in			—	in			—	in	
	12^h48^m	84° 46′	$0^s.01$	$0''.01$	12^h48^m	84° 47′	$0^s.01$	$0''.01$	12^h48^m	84° 47′	$0^s.01$	$0''.01$	12^h48^m	84° 47′	$0^s.01$	$0''.01$
1	$19^s.43$	$59''.12$	+6	0	$27^s.20$	$4''.28$	−1	−6	$32^s.36$	$12''.74$	−2	−5	$35^s.05$	$24''.18$	−7	+5
2	19.70	59.20	+5	−2	27.42	4.53	−3	−5	32.50	13.09	−5	−4	35.08	24.56	−5	+7
3	19.97	59.29	+3	−4	27.64	4.78	−5	−2	32.63	13.44	−6	−1	35.11	24.94	−2	+9
4	20.23	59.38	+1	−5	27.86	5.04	−7	+1	32.77	13.79	−7	+3	35.13 35.15	25.31 25.69	+1 +4	+8 +6
5	20.50	59.47	−2	−5	28.07	5.30	−7	+4	32.89	14.15	−6	+6	35.17	26.06	+6	+2
6	20.76	59.57	−4	−3	28.28	5.57	−6	+7	33.02	14.50	−4	+8	35.18	26.44	+7	−2
7	21.03	59.68	−6	−1	28.49	5.84	−3	+9	33.14	14.86	−1	+9	35.19	26.81	+6	−6
8	21.29	59.80	−7	+3	28.70	6.12	0	+9	33.26	15.22	+2	+8	35.19	27.19	+4	−8
9	21.55	59.92	−7	+6	28.90	6.40	+3	+7	33.38	15.58	+5	+5	35.20	27.56	+1	−9
10	21.82	60.04	−5	+9	29.10	6.69	+5	+4	33.49	15.95	+6	+1	35.19	27.93	−2	−8
11	22.08	60.18	−2	+10	29.30	6.98	+7	0	33.60	16.31	+6	−3	35.19	28.30	−4	−5
12	22.33	60.32	+1	+9	29.49	7.27	+6	−5	33.70	16.68	+5	−7	35.18	28.67	−5	−2
13	22.59	60.46	+4	+6	29.69	7.56	+4	−8	33.80	17.05	+2	−9	35.17	29.04	−5	+1
14	22.85	60.61	+6	+2	29.88	7.86	+1	−9	33.90	17.41	0	−9	35.15	29.41	−4	+4
15	23.10	60.77	+7	−3	30.07	8.16	−2	−9	34.00	17.78	−3	−7	35.13	29.77	−2	+6
16	23.36	60.93	+6	−7	30.25	8.47	−4	−7	34.09	18.16	−5	−4	35.11	30.14	+1	+6
17	23.61	61.10	+3	−10	30.43	8.78	−5	−3	34.18	18.53	−5	−1	35.08	30.50	+3	+5
18	23.86	61.28	0	−10	30.61	9.10	−5	0	34.26	18.90	−5	+2	35.05	30.86	+5	+3
19	24.11	61.46	−3	−9	30.79	9.41	−4	+3	34.34	19.28	−3	+5	35.02	31.22	+6	+1
20	24.36	61.64	−5	−6	30.96	9.73	−2	+5	34.42	19.65	−1	+6	34.98	31.58	+6	−1
21	24.61	61.83	−5	−2	31.13	10.06	+1	+6	34.49	20.03	+2	+6	34.94	31.93	+4	−3
22	24.85	62.03	−5	+1	31.29	10.38	+3	+5	34.56	20.40	+4	+4	34.90	32.29	+3	−5
23	25.10	62.23	−3	+4	31.46	10.71	+5	+3	34.62	20.78	+5	+2	34.85	32.64	0	−5
24	25.34	62.44	−1	+5	31.61	11.04	+6	+1	34.69	21.16	+6	0	34.80	32.99	−3	−5
25	25.58	62.65	+2	+6	31.77	11.37	+6	−1	34.74	21.54	+5	−2	34.75	33.33	−5	−3
26	25.81	62.87	+4	+5	31.92	11.71	+5	−4	34.80	21.91	+4	−4	34.69	33.68	−7	0
27	26.05	63.09	+5	+3	32.07	12.05	+3	−5	34.85	22.29	+2	−6	34.63	34.02	−7	+4
28	26.29	63.32	+6	0	32.22	12.40	+1	−6	34.90	22.67	−1	−6	34.57	34.36	−6	+7
29	26.52	63.55	+5	−2	32.36	12.74	−2	−5	34.94	23.05	−4	−4	34.50	34.70	−4	+9
30	26.75	63.79	+4	−4					34.98	23.43	−6	−2	34.43	35.04	−1	+9
31	26.97	64.03	+2	−5					35.02	23.80	−7	+1	34.36	35.37	+3	+7
32	27.20	64.28	−1	−6					35.05	24.18	−7	+5				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−84° 46′ 50″	10.993	−10.947	−84° 47′ 10″	11.004	−10.959	−84° 47′ 30″	11.016	−10.971
60	10.998	−10.953	20	11.010	−10.965	40	11.022	−10.976

$\alpha_{1938.0} = 12^h\ 48^m\ 14^s.97$ $\qquad$ $\delta_{1938.0} = -84°\ 47'\ 13''.95$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Sd) ι Octantis $5^m.38$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$12^h 48^m$	−84° 47′	in $0^s.01$	in $0''.01$	$12^h 48^m$	−84° 47′	in $0^s.01$	in $0''.01$	$12^h 48^m$	−84° 47′	in $0^s.01$	in $0''.01$	$12^h 48^m$	−84° 47′	in $0^s.01$	in $0''.01$
1	$34^s.36$	$35''.37$	+3	+ 7	$30^s.60$	$44''.05$	+6	− 7	$24^s.94$	$48''.35$	−1	− 9	$18^s.46$	$47''.58$	−5	+ 2
2	34.28	35.70	+5	+ 4	30.44	44.27	+3	−10	24.73	48.41	−4	− 7	18.27	47.47	−2	+ 4
3	34.20	36.03	+7	− 1	30.27	44.48	0	−10	24.52	48.47	−5	− 4	18.07	47.35	0	+ 5
4	34.12	36.35	+6	− 5	30.11	44.69	−2	− 9	24.31	48.52	−5	0	17.87	47.23	+3	+ 5
5	34.03	36.67	+5	− 8	29.94	44.89	−4	− 6	24.10	48.56	−3	+ 3	17.68	47.10	+5	+ 3
6	33.94	36.99	+2	−10	29.77	45.09	−5	− 2	23.89	48.60	−1	+ 5	17.48	46.96	+6	+ 1
7	33.85	37.31	−1	− 9	29.60	45.28	−5	+ 1	23.68	48.63	+1	+ 5	17.29	46.82	+6	− 1
8	33.75	37.62	−3	− 7	29.42	45.47	−3	+ 4	23.46	48.66	+3	+ 4	17.10	46.68	+5	− 4
9	33.65	37.93	−5	− 4	29.24	45.65	−1	+ 5	23.25	48.68	+5	+ 3	16.92	46.53	+4	− 5
10	33.55	38.24	−5	0	29.06	45.83	+2	+ 5	23.04	48.69	+5	0	16.73	46.37	+2	− 6
11	33.44	38.54	−4	+ 3	28.88	46.00	+4	+ 4	22.83	48.70	+6	− 2	16.55	46.21	−1	− 6
12	33.34	38.84	−2	+ 5	28.70	46.17	+5	+ 2	22.62	48.71	+5	− 4	16.37	46.05	−3	− 4
13	33.23	39.14	0	+ 6	28.52	46.33	+6	0	22.41	48.70	+3	− 5	16.19	45.88	−5	− 2
14	33.11	39.43	+2	+ 5	28.33	46.49	+5	− 2	22.20	48.69	+1	− 6	16.01	45.70	−7	+ 1
15	33.00	39.72	+4	+ 4	28.14	46.64	+4	− 4	21.99	48.68	−2	− 5	15.83	45.52	−7	+ 5
16	32.88	40.01	+5	+ 2	27.95	46.79	+2	− 5	21.78	48.66	−4	− 3	15.66	45.33	−6	+ 8
17	32.76	40.29	+5	0	27.75	46.93	0	− 5	21.57	48.64	−6	0	15.49	45.14	−3	+ 9
18	32.63	40.57	+5	− 3	27.56	47.06	−3	− 4	21.36	48.61	−7	+ 3	15.32	44.94	0	+10
19	32.50	40.85	+3	− 4	27.37	47.19	−5	− 2	21.15	48.57	−7	+ 7	15.16	44.74	+2	+ 8
20	32.37	41.12	+1	− 5	27.17	47.32	−7	+ 1	20.94	48.53	−5	+ 9	14.99	44.54	+5	+ 4
21	32.24	41.39	−2	− 5	26.97	47.44	−8	+ 5	20.73	48.48	−2	+10	14.83	44.33	+6	0
22	32.10	41.65	−4	− 3	26.77	47.55	−6	+ 8	20.52	48.43	+1	+ 9	14.68	44.12	+5	− 4
23	31.96	41.91	−6	− 1	26.57	47.66	−4	+10	20.31	48.37	+4	+ 7	14.52	43.90	+3	− 7
24	31.82	42.16	−7	+ 3	26.37	47.77	−1	+10	20.10	48.30	+6	+ 2	14.37	43.68	+1	− 8
25	31.68	42.41	−7	+ 6	26.17	47.87	+2	+ 8	19.89	48.23	+6	− 2	14.22	43.45	−2	− 8
26	31.53	42.66	−5	+ 9	25.97	47.97	+5	+ 4	19.68	48.15	+5	− 6	14.07	43.22	−4	− 6
27	31.38	42.90	−2	+10	25.76	48.06	+6	0	19.48	48.07	+3	− 9	13.93	42.99	−5	− 2
28	31.23	43.14	+1	+ 9	25.56	48.14	+6	− 5	19.27	47.98	0	− 9	13.79	42.75	−5	+ 1
29	31.07	43.37	+4	+ 6	25.36	48.22	+4	− 8	19.07	47.89	−3	− 8	13.66	42.51	−3	+ 3
30	30.92	43.60	+6	+ 1	25.15	48.29	+1	−10	18.87	47.79	−5	− 5	13.52	42.26	−1	+ 5
31	30.76	43.83	+7	− 3	24.94	48.35	−1	− 9	18.66	47.69	−5	− 1	13.40	42.02	+2	+ 5
32	30.60	44.05	+6	− 7					18.46	47.58	−5	+ 2	13.27	41.76	+4	+ 4

δ	sec δ	tg δ	δ	sec δ	tg δ
−84° 47′ 30″	11.016	−10.971	−84° 47′ 40″	11.022	−10.976
40	11.022	−10.976	50	11.028	−10.982

$\alpha_{1938.0} = 12^h\ 48^m\ 14^s.97$ $\delta_{1938.0} = -84^\circ\ 47'\ 13''.95$

Sd) ι Octantis $5^m.38$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	12^h48^m	—84° 47′	in $0^s.01$	in $0''.01$	12^h48^m	—84° 47′	in $0^s.01$	in $0''.01$	12^h48^m	—84° 47′	in $0^s.01$	in $0''.01$	12^h48^m	—84° 47′	in $0^s.01$	in $0''.01$
1	13.27	41.76	+4	+4	11.25	32.98	+6	−2	13.31	23.68	0	−6	19.01	17.65	−6	0
2	13.15	41.51	+5	+2	11.25	32.66	+5	−4	13.45	23.41	−3	−5	19.25	17.53	−7	+3
3	13.03	41.25	+6	−1	11.25	32.35	+3	−6	13.59	23.15	−5	−2	19.49	17.42	−7	+6
4	12.91	40.99	+6	−3	*)11.26	32.03	+1	−6	13.74	22.89	−7	+1	19.73	17.31	−5	+9
5	12.80	40.72	+5	−5	11.27	31.72	−2	−6	13.89	22.63	−7	+4	19.97	17.21	−2	+10
6	12.69	40.45	+2	−6	11.29	31.40	−4	−4	14.05	22.38	−6	+7	20.22	17.12	+1	+9
7	12.59	40.17	0	−6	11.31	31.09	−6	−1	14.21	22.14	−4	+9	20.46	17.03	+4	+6
8	12.49	39.90	−2	−5	11.34	30.78	−7	+2	14.37	21.89	−1	+9	20.71	16.94	+6	+2
9	12.39	39.62	−5	−3	11.37	30.46	−6	+5	14.53	21.66	+2	+7	20.96	16.87	+6	−3
10	12.29	39.34	−6	0	11.40	30.15	−5	+8	14.70	21.42	+5	+4	21.21	16.79	+5	−7
11	12.20	39.06	−7	+3	11.44	29.84	−2	+8	14.87	21.19	+6	0	21.46	16.73	+3	−9
12	12.11	38.77	−6	+6	11.48	29.52	+1	+8	15.05	20.97	+6	−4	21.72	16.67	0	−9
13	12.03	38.48	−4	+8	11.53	29.21	+3	+6	15.23	20.75	+4	−7	21.98	16.62	−3	−8
14	11.95	38.19	−1	+9	11.58	28.90	+5	+2	15.41	20.53	+1	−9	22.23	16.57	−5	−5
15	11.87	37.90	+2	+8	11.64	28.59	+6	−2	15.60	20.32	−1	−8	22.49	16.53	−5	−1
16	11.80	37.60	+4	+5	11.71	28.28	+5	−5	15.79	20.11	−4	−6	22.75	16.50	−4	+2
17	11.73	37.30	+6	+1	11.77	27.98	+3	−8	15.98	19.91	−5	−3	23.01	16.47	−2	+4
18	11.67	37.00	+6	−2	11.85	27.68	0	−8	16.18	19.71	−5	+1	23.27	16.45	0	+5
19	11.61	36.70	+4	−6	11.92	27.38	−2	−7	16.38	19.52	−4	+3	23.54	16.44	+2	+5
20	11.56	36.40	+2	−8	12.00	27.08	−5	−4	16.58	19.34	−2	+5	23.80	16.43	+4	+3
21	11.51	36.10	−1	−8	12.09	26.78	−5	−1	16.79	19.16	+1	+5	24.06	16.43	+6	+1
22	11.46	35.79	−4	−6	12.18	26.48	−5	+2	17.00	18.98	+3	+5	24.33	16.44	+6	−1
23	11.42	35.48	−5	−3	12.27	26.19	−3	+4	17.21	18.81	+5	+3	24.60	16.45	+5	−4
24	11.38	35.17	−5	0	12.37	25.90	−1	+6	17.43	18.64	+6	0	24.86	16.47	+4	−5
25	11.35	34.86	−4	+3	12.47	25.61	+2	+5	17.65	18.48	+6	−2	25.13	16.50	+2	−6
26	11.32	34.54	−2	+5	12.58	25.33	+4	+4	17.87	18.33	+5	−4	25.40	16.53	−1	−5
27	11.30	34.23	0	+6	12.69	25.05	+5	+2	18.09	18.18	+3	−5	25.66	16.57	−3	−4
28	11.28	33.92	+3	+5	12.81	24.77	+6	−1	18.32	18.04	+1	−6	25.93	16.61	−5	−1
29	11.27	33.61	+5	+3	12.93	24.49	+5	−3	18.55	17.90	−2	−5	26.20	16.66	−7	+2
30	11.26	33.29	+6	+1	13.05	24.22	+4	−5	18.78	17.77	−4	−3	26.46	16.71	−7	+5
31	11.25	32.98	+6	−2	13.18	23.94	+2	−6	19.01	17.65	−6	0	26.73	16.77	−6	+8
32					13.31	23.68	0	−6					26.99	16.84	−4	+10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−84° 47′ 10″	11.004	−10.959	−84° 47′ 20″	11.010	−10.965	−84° 47′ 40″	11.022	−10.976
20	11.010	−10.965	30	11.016	−10.971	50	11.028	−10.982

$\alpha_{1938.0} = 12^h\ 48^m\ 14^s.97$ $\delta_{1938.0} = -84°\ 47'\ 13''.95$

*) Tag der doppelten unteren Kulmination: Okt. 4.

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Se) Octantis 20 G. $6^{m}.52$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder in 0.01 s	Januar ☾ Glieder in 0.01″	Februar AR.	Februar Dekl.	Februar ☾ Glieder in 0.01 s	Februar ☾ Glieder in 0.01″	März AR.	März Dekl.	März ☾ Glieder in 0.01 s	März ☾ Glieder in 0.01″	April AR.	April Dekl.	April ☾ Glieder in 0.01 s	April ☾ Glieder in 0.01″
	14h 55m	−87° 53′			14h 55m	−87° 53′			14h 56m	−87° 53′			14h 56m	−87° 53′		
	s	″			s	″			s	″			s	″		
1	33.95	45.69	+12	+3	54.53	44.58	+3	−6	13.11	48.16	−1	−7	29.56	56.07	−18	0
2	34.57	45.57	+12	+1	55.22	44.64	−3	−7	13.73	48.36	−7	−7	29.98	56.38	−17	+4
3	35.18	45.46	+10	−2	55.90	44.70	−10	−6	14.34	48.56	−13	−5	30.39	56.68	−12	+7
4	35.80	45.35	+6	−4	56.59	44.77	−15	−4	14.95	48.77	−17	−2	30.80	56.99	−4	+8
5	36.43	45.24	0	−6	57.27	44.84	−18	0	15.55	48.98	−18	+1	31.20	57.31	+4	+8
6	37.06	45.14	−7	−6	57.96	44.92	−18	+3	16.14	49.20	−15	+5	31.59	57.62	+11	+6
7	37.70	45.05	−13	−5	58.65	45.01	−14	+7	16.73	49.42	−10	+8	31.98	57.94	+16	+2
8	38.34	44.96	−18	−2	59.33	45.10	−8	+9	17.32	49.64	−2	+9	32.36	58.26	+16	−2
9	38.99	44.88	−20	+1	60.01	45.19	+1	+9	17.90	49.87	+6	+8	32.72	58.58	+14	−6
10	39.63	44.80	−18	+5	60.69	45.29	+8	+7	18.48	50.10	+13	+5	33.08	58.90	+8	−8
11	40.29	44.73	−12	+8	61.37	45.40	+14	+4	19.05	50.34	+16	+1	33.44	59.23	+1	−9
12	40.94	44.67	−5	+10	62.04	45.51	+16	0	19.61	50.58	+15	−3	33.78	59.55	−5	−8
13	41.60	44.61	+4	+9	62.72	45.62	+15	−5	20.17	50.82	+12	−7	34.11	59.88	−9	−5
14	42.26	44.55	+12	+6	63.39	45.74	+10	−8	20.72	51.07	+6	−9	34.44	60.21	−11	−2
15	42.93	44.51	+16	+2	64.06	45.87	+3	−9	21.27	51.32	−1	−9	34.76	60.54	−11	+2
16	43.60	44.47	+17	−3	64.73	46.00	−3	−9	21.81	51.57	−7	−7	35.07	60.87	−7	+5
17	44.27	44.43	+14	−7	65.40	46.14	−8	−7	22.34	51.83	−10	−4	35.37	61.21	−3	+6
18	44.94	44.40	+8	−9	66.06	46.28	−11	−3	22.87	52.09	−12	−1	35.66	61.54	+2	+7
19	45.62	44.37	+1	−10	66.72	46.42	−11	+1	23.39	52.36	−10	+3	35.95	61.88	+7	+6
20	46.30	44.36	−5	−9	67.37	46.57	−8	+4	23.91	52.63	−6	+5	36.22	62.22	+11	+5
21	46.98	44.34	−9	−6	68.02	46.73	−3	+6	24.42	52.90	0	+7	36.49	62.55	+13	+2
22	47.66	44.34	−11	−2	68.67	46.89	+2	+7	24.92	53.17	+5	+7	36.74	62.89	+12	0
23	48.34	44.34	−9	+2	69.32	47.06	+7	+6	25.41	53.45	+9	+6	36.99	63.23	+9	−3
24	49.02	44.34	−5	+5	69.96	47.23	+11	+5	25.90	53.73	+12	+4	37.23	63.57	+4	−5
25	49.71	44.35	−1	+6	70.60	47.41	+13	+3	26.38	54.01	+13	+1	37.46	63.91	−2	−6
26	50.40	44.37	+4	+7	71.23	47.59	+13	0	26.86	54.30	+11	−2	37.68	64.26	−7	−6
27	51.09	44.39	+9	+6	71.86	47.78	+10	−3	27.33	54.59	+8	−4	37.89	64.60	−15	−4
28	51.78	44.42	+12	+4	72.49	47.97	+5	−5	27.79	54.88	+2	−6	38.09	64.95	−18	−1
29	52.47	44.45	+13	+2	73.11	48.16	−1	−7	28.24	55.17	−5	−7	38.29	65.29	−18	+2
30	53.15	44.49	+12	−1					28.69	55.47	−11	−6	38.47	65.64	−14	+6
31	53.84	44.53	+8	−4					29.13	55.77	−16	−3	38.65	65.98	−8	+8
32	54.53	44.58	+3	−6					29.56	56.07	−18	0				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 53′ 40″	27.218	−27.199	−87° 53′ 50″	27.254	−27.235	−87° 54′ 0″	27.290	−27.271
50	27.254	−27.235	60	27.290	−27.271	10	27.326	−27.308

$\alpha_{1938.0} = 14^{h}\ 55^{m}\ 39^{s}.98$ $\delta_{1938.0} = -87^{\circ}\ 54'\ 0''.95$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Se) Octantis 20 G. $6^{m}.52$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	$14^h 56^m$	$-87° 54'$	in $0^s.01$	in $0''.01$	$14^h 56^m$	$-87° 54'$	in $0^s.01$	in $0''.01$	$14^h 56^m$	$-87° 54'$	in $0^s.01$	in $0''.01$	$14^h 56^m$	$-87° 54'$	in $0^s.01$	in $0''.01$
1	38.65	5.98	−8	+8	39.32	16.74	+17	−3	31.55	24.87	+4	−10	17.14	29.24	−11	−1
2	38.81	6.33	0	+8	39.19	17.06	+14	−7	31.17	25.09	−3	−9	16.61	29.30	−8	+2
3	38.97	6.67	+9	+7	39.04	17.37	+8	−9	30.78	25.29	−8	−7	16.08	29.35	−3	+5
4	39.12	7.02	+15	+3	38.89	17.68	+1	−10	30.39	25.50	−10	−3	15.54	29.39	+2	+6
5	39.26	7.36	+17	−1	38.73	17.99	−5	−8	29.99	25.70	−10	+1	15.00	29.43	+8	+6
6	{39.39 39.51	7.71 8.05	+16 +12	−5 −8}	38.56	18.29	−9	−5	29.58	25.90	−6	+4	14.46	29.46	+11	+5
7	39.62	8.40	+5	−9	38.37	18.60	−10	−1	29.17	26.09	−1	+6	13.93	29.49	+14	+3
8	39.72	8.74	−2	−9	38.18	18.89	−9	+2	28.75	26.28	+4	+6	13.39	29.51	+14	0
9	39.81	9.09	−7	−7	37.99	19.19	−5	+5	28.32	26.46	+9	+6	12.84	29.52	+12	−3
10	39.89	9.43	−10	−3	37.78	19.48	0	+6	27.89	26.64	+11	+4	12.30	29.53	+8	−5
11	39.96	9.77	−11	0	37.56	19.77	+5	+6	27.45	26.81	+13	+2	11.76	29.54	+2	−6
12	40.03	10.12	−8	+3	37.34	20.06	+9	+6	27.01	26.98	+12	−1	11.21	29.53	−4	−6
13	40.08	10.46	−4	+6	37.11	20.35	+12	+4	26.56	27.14	+10	−3	10.67	29.52	−10	−5
14	40.13	10.80	+1	+7	36.87	20.63	+13	+1	26.10	27.30	+5	−5	10.12	29.51	−15	−3
15	40.16	11.15	+6	+7	36.62	20.91	+11	−1	25.64	27.45	−1	−6	9.57	29.49	−18	0
16	40.19	11.49	+10	+5	36.36	21.18	+8	−4	25.17	27.60	−7	−6	9.03	29.47	−18	+4
17	40.20	11.83	+12	+3	36.10	21.46	+3	−6	24.70	27.74	−13	−4	8.48	29.43	−14	+7
18	40.21	12.16	+12	+1	35.83	21.72	−3	−6	24.22	27.88	−18	−2	7.94	29.40	−8	+9
19	40.21	12.50	+10	−2	35.54	21.99	−10	−5	23.74	28.01	−19	+2	7.40	29.35	0	+9
20	40.20	12.84	+6	−4	35.25	22.25	−16	−3	23.26	28.13	−18	+6	6.85	29.30	+7	+7
21	40.17	13.17	0	−6	34.96	22.51	−20	0	22.77	28.26	−12	+8	6.31	29.25	+12	+4
22	40.14	13.50	−7	−6	34.65	22.76	−20	+4	22.28	28.37	−5	+10	5.78	29.19	+14	0
23	40.10	13.83	−13	−5	34.33	23.01	−16	+7	21.78	28.48	+3	+9	5.24	29.12	+13	−5
24	40.05	14.16	−18	−2	34.01	23.26	−9	+9	21.28	28.59	+10	+6	4.70	29.05	+8	−8
25	40.00	14.49	−20	+1	33.68	23.50	−1	+9	20.77	28.69	+15	+2	4.16	28.97	+2	−9
26	39.93	14.82	−18	+5	33.34	23.74	+8	+7	20.26	28.79	+15	−3	3.63	28.89	−5	−8
27	39.85	15.15	−12	+8	33.00	23.97	+14	+4	19.75	28.88	+12	−7	3.10	28.80	−9	−6
28	39.76	15.47	−4	+9	32.64	24.21	+17	−1	19.23	28.96	+6	−9	2.58	28.71	−11	−2
29	39.67	15.79	+5	+8	32.28	24.43	+16	−5	18.71	29.04	0	−9	2.05	28.61	−10	+1
30	39.56	16.11	+12	+5	31.92	24.65	+11	−9	18.19	29.11	−6	−8	1.53	28.50	−6	+4
31	39.44	16.43	+17	+1	31.55	24.87	+4	−10	17.66	29.18	−10	−5	1.01	28.39	0	+6
32	39.32	16.74	+17	−3					17.14	29.24	−11	−1	0.49	28.27	+5	+6

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 54′ 0″	27.290	−27.271	−87° 54′ 10″	27.326	−27.308	−87° 54′ 20″	27.362	−27.344
10	27.326	−27.308	20	27.362	−27.344	30	27.398	−27.380

$\alpha_{1938.0} = 14^h\ 55^m\ 39^s.98$ $\delta_{1938.0} = -87°\ 54'\ 0''.95$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Se) Octantis 20 G. $6^{m}.52$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
		—	in			—	in			—	in			—	in	
	$14^h 55^m$	87° 54′	$0^s.01$	$0''.01$	$14^h 55^m$	87° 54′	$0^s.01$	$0''.01$	$14^h 55^m$	87° 54′	$0^s.01$	$0''.01$	$14^h 55^m$	87° 53′	$0^s.01$	$0''.01$
1	$60^s.49$	$28''.27$	+5	+6	$47^s.58$	$22''.37$	+14	+2	$42^s.58$	$13''.01$	+4	−6	$48^s.20$	$63''.84$	−13	−4
2	59.98	28.15	+10	+5	47.26	22.11	+14	−1	42.60	12.69	−3	−7	48.56	63.57	−17	−1
3	59.47	28.02	+13	+4	46.95	21.84	+11	−3	42.63	12.37	−10	−6	48.93	63.30	−19	+2
4	58.96	27.88	+14	+1	46.65	21.57	+7	−5	42.68	12.05	−15	−4	49.31	63.04	−17	+5
5	58.46	27.74	+13	−2	46.36	21.29	+1	−7	*)42.73	11.73	−18	−1	49.70	62.78	−12	+8
6	57.97	27.60	+10	−4	46.08	21.01	−6	−7	42.80	11.41	−17	+3	50.10	62.52	−4	+9
7	57.48	27.45	+5	−6	45.82	20.73	−11	−5	42.88	11.09	−14	+6	50.51	62.27	+4	+8
8	56.99	27.29	−1	−7	45.56	20.45	−16	−3	42.97	10.77	−8	+8	50.93	62.02	+11	+5
9	56.51	27.13	−8	−6	45.31	20.16	−17	+1	43.07	10.45	0	+8	51.35	61.78	+15	+1
10	56.04	26.97	−13	−4	45.07	19.87	−16	+4	43.18	10.13	+8	+7	51.79	61.54	+16	−3
11	55.57	26.80	−17	−1	44.84	19.58	−11	+7	43.30	9.81	+13	+3	52.24	61.31	+12	−7
12	55.10	26.62	−17	+2	44.62	19.29	−4	+8	43.44	9.49	+15	−1	52.70	61.08	+7	−9
13	54.64	26.44	−15	+6	44.41	18.99	+3	+8	43.59	9.17	+14	−5	53.16	60.85	0	−9
14	54.19	26.25	−10	+8	44.21	18.69	+10	+6	43.75	8.86	+10	−7	53.64	60.63	−6	−7
15	53.74	26.06	−2	+9	44.03	18.39	+14	+2	43.92	8.55	+3	−9	54.12	60.41	−10	−4
16	53.30	25.86	+5	+8	43.85	18.08	+15	−2	44.10	8.24	−3	−8	54.61	60.20	−10	−1
17	52.87	25.66	+11	+5	43.69	17.78	+12	−6	44.30	7.93	−8	−6	55.11	59.99	−8	+3
18	52.44	25.45	+14	+1	43.54	17.47	+7	−8	44.50	7.62	−11	−2	55.61	59.79	−3	+5
19	52.02	25.24	+13	−3	43.39	17.16	0	−8	44.72	7.31	−11	+1	56.13	59.59	+2	+6
20	51.61	25.02	+9	−6	43.26	16.85	−6	−7	44.95	7.01	−7	+4	56.65	59.40	+7	+6
21	51.20	24.80	+4	−8	43.14	16.53	−10	−4	45.19	6.71	−2	+6	57.18	59.21	+11	+5
22	50.80	24.58	−3	−8	43.03	16.22	−12	−1	45.44	6.41	+3	+7	57.72	59.03	+13	+2
23	50.41	24.35	−8	−6	42.93	15.90	−10	+2	45.70	6.11	+8	+6	58.27	58.85	+13	0
24	50.03	24.11	−11	−3	42.85	15.58	−6	+5	45.98	5.82	+12	+4	58.82	58.68	+12	−2
25	49.65	23.88	−11	0	42.77	15.26	0	+6	46.26	5.53	+13	+2	59.38	58.51	+7	−4
26	49.28	23.63	−8	+3	42.71	14.94	+5	+6	46.56	5.24	+13	−1	59.94	58.35	+2	−6
27	48.93	23.39	−4	+6	42.66	14.62	+10	+5	46.87	4.96	+10	−3	60.51	58.20	−4	−6
28	48.58	23.14	+2	+7	42.62	14.30	+13	+3	47.18	4.67	+6	−5	61.09	58.04	−10	−5
29	48.23	22.89	+8	+6	42.59	13.98	+14	+1	47.51	4.39	−1	−6	61.67	57.90	−16	−3
30	47.90	22.63	+12	+5	42.58	13.66	+13	−2	47.85	4.12	−7	−6	62.26	57.76	−19	0
31	47.58	22.37	+14	+2	42.57	13.33	+9	−4	48.20	3.84	−13	−4	62.85	57.62	−18	+4
32					42.58	13.01	+4	−6					63.45	57.49	−15	+7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 53′ 50″	27.254	−27.235	−87° 54′ 0″	27.290	−27.271	−87° 54′ 20″	27.362	−27.344
60	27.290	−27.271	10	27.326	−27.308	30	27.398	−27.380

$\alpha_{1938.0} = 14^h\ 55^m\ 39^s.98$ $\delta_{1938.0} = -87°\ 54'\ 0''.95$

*) Tag der doppelten unteren Kulmination: Nov. 5.

S†) Octantis 26 G. 6.ᵐ13

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$16^h 37^m$	— 86° 15′	in 0.01 s	0.01 "	$16^h 37^m$	— 86° 15′	in 0.01 s	0.01 "	$16^h 37^m$	— 86° 15′	in 0.01 s	0.01 "	$16^h 37^m$	— 86° 15′	in 0.01 s	0.01 "
1	12.78	21.13	+ 5	+6	22.84	15.48	+ 4	−5	33.90	14.46	+ 3	−7	45.78	17.79	−10	−4
2	13.04	20.88	+ 6	+3	23.22	15.37	+ 1	−7	34.30	14.49	− 1	−8	46.13	17.97	−11	0
3	13.31	20.64	+ 6	0	23.60	15.27	− 3	−8	34.70	14.54	− 5	−8	46.48	18.15	−10	+4
4	13.58	20.40	+ 5	−3	23.97	15.18	− 7	−7	35.10	14.58	− 8	−6	46.83	18.34	− 6	+7
5	13.85	20.17	+ 3	−6	24.36	15.09	−10	−4	35.50	14.63	−10	−2	47.17	18.52	− 1	+9
6	14.13	19.94	− 1	−8	24.74	15.00	−11	−1	35.90	14.69	−11	+2	47.51	18.72	+ 3	+8
7	14.42	19.71	− 5	−8	25.13	14.92	−11	+3	36.30	14.75	− 9	+5	47.85	18.91	+ 8	+5
8	14.71	19.49	− 9	−6	25.52	14.85	− 8	+7	36.70	14.82	− 5	+8	48.18	19.11	+10	+1
9	15.00	19.27	−11	−3	25.91	14.78	− 4	+9	37.10	14.89	0	+9	48.51	19.31	+10	−3
10	15.30	19.05	−12	+1	26.30	14.71	+ 1	+9	37.49	14.97	+ 4	+7	48.84	19.52	+ 8	−6
11	15.60	18.84	−11	+5	26.69	14.65	+ 6	+7	37.88	15.05	+ 8	+4	49.16	19.73	+ 5	−8
12	15.91	18.64	− 7	+8	27.08	14.60	+ 9	+3	38.28	15.14	+10	0	49.48	19.94	+ 1	−8
13	16.22	18.43	− 2	+9	27.48	14.55	+10	−2	38.67	15.23	+ 9	−4	49.80	20.16	− 3	−7
14	16.54	18.24	+ 4	+8	27.88	14.50	+ 9	−5	39.06	15.33	+ 7	−7	50.11	20.38	− 5	−4
15	16.86	18.04	+ 8	+5	28.27	14.46	+ 6	−8	39.45	15.43	+ 3	−9	50.42	20.60	− 6	−1
16	17.18	17.85	+11	+1	28.67	14.43	+ 2	−9	39.84	15.53	0	−8	50.73	20.83	− 6	+3
17	17.51	17.67	+11	−4	29.07	14.40	− 2	−8	40.22	15.64	− 4	−6	51.03	21.06	− 4	+6
18	17.84	17.49	+ 9	−7	29.48	14.38	− 5	−5	40.61	15.75	− 6	−3	51.33	21.29	− 2	+7
19	18.18	17.31	+ 5	−9	29.88	14.36	− 6	−2	40.99	15.87	− 6	+1	51.62	21.53	+ 1	+8
20	18.52	17.14	+ 1	−9	30.28	14.35	− 6	+2	41.37	15.99	− 5	+4	51.92	21.77	+ 4	+7
21	18.86	16.98	− 3	−7	30.68	14.34	− 5	+5	41.75	16.12	− 3	+6	52.20	22.01	+ 6	+5
22	19.21	16.82	− 5	−4	31.09	14.34	− 2	+7	42.13	16.25	− 1	+8	52.48	22.26	+ 7	+2
23	19.56	16.66	− 6	0	31.49	14.34	+ 1	+8	42.50	16.38	+ 2	+7	52.76	22.50	+ 6	−1
24	19.91	16.51	− 5	+3	31.89	14.35	+ 4	+7	42.88	16.52	+ 5	+6	53.04	22.75	+ 5	−4
25	20.27	16.37	− 3	+6	32.29	14.36	+ 6	+5	43.25	16.66	+ 6	+4	53.30	23.01	+ 2	−7
26	20.63	16.23	− 1	+8	32.69	14.38	+ 7	+2	43.62	16.81	+ 7	+1	53.57	23.26	− 2	−8
27	20.99	16.09	+ 2	+8	33.09	14.40	+ 7	−1	43.98	16.96	+ 6	−3	53.83	23.52	− 6	−7
28	21.36	15.96	+ 4	+6	33.49	14.43	+ 5	−4	44.35	17.12	+ 4	−6	54.09	23.78	− 9	−5
29	21.72	15.83	+ 6	+4	33.90	14.46	+ 3	−7	44.71	17.28	0	−7	54.34	24.04	−11	−2
30	22.10	15.71	+ 7	+1					45.07	17.45	− 3	−8	54.59	24.31	−11	+2
31	22.47	15.59	+ 6	−2					45.43	17.62	− 7	−7	54.83	24.58	− 8	+6
32	22.84	15.48	+ 4	−5					45.78	17.79	−10	−4				

δ	sec δ	tg δ	δ	sec δ	tg δ
−86° 15′ 10″	15.301	−15.268	−86° 15′ 20″	15.312	−15.280
20	15.312	−15.280	30	15.324	−15.291

$\alpha_{1938.0} = 16^h\ 37^m\ 22.^s06$ $\delta_{1938.0} = -86°\ 15'\ 33.''21$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Sf) Octantis 26 G. 6ᵐ.13

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
	16h 37m	—86° 15′	in 0.01s	in 0.01″	16h 37m	—86° 15′	in 0.01s	in 0.01″	16h 37m	—86° 15′	in 0.01s	in 0.01″	16h 37m	—86° 15′	in 0.01s	in 0.01″
1	54.83	24.58	− 8	+6	59.99 / 60.07	33.78 / 34.10	+ 9 / +11	+5 / 0	59.89	43.16	+ 7	−8	54.71	50.41	− 5	−3
2	55.07	24.85	− 4	+8	60.15	34.41	+11	−4	59.80	43.44	+ 3	−9	54.47	50.59	− 5	+1
3	55.31	25.12	+ 2	+8	60.22	34.72	+ 9	−7	59.71	43.72	− 1	−8	54.23	50.76	− 4	+4
4	55.54	25.40	+ 6	+6	60.28	35.03	+ 5	−9	59.61	44.00	− 4	−5	53.99	50.92	− 2	+7
5	55.77	25.67	+10	+3	60.34	35.34	+ 1	−9	59.50	44.27	− 5	−1	53.74	51.08	+ 1	+7
6	55.99	25.96	+11	−1	60.39	35.65	− 3	−7	59.39	44.54	− 5	+2	53.49	51.23	+ 4	+7
7	56.21	26.24	+10	−5	60.44	35.96	− 5	−3	59.27	44.81	− 3	+5	53.23	51.38	+ 6	+5
8	56.42	26.52	+ 7	−8	60.49	36.27	− 6	0	59.14	45.07	− 1	+7	52.98	51.53	+ 7	+3
9	56.63	26.81	+ 3	−9	60.52	36.58	− 5	+4	59.01	45.33	+ 2	+7	52.71	51.67	+ 7	0
10	56.83	27.10	− 1	−8	60.55	36.89	− 3	+6	58.88	45.59	+ 4	+6	52.45	51.80	+ 6	−3
11	57.03	27.39	− 4	−5	60.58	37.20	0	+7	58.74	45.84	+ 6	+4	52.18	51.93	+ 4	−5
12	57.22	27.68	− 6	−2	60.60	37.51	+ 2	+7	58.59	46.10	+ 7	+2	51.91	52.06	+ 1	−7
13	57.41	27.98	− 6	+2	60.61	37.82	+ 4	+6	58.44	46.35	+ 7	−1	51.63	52.18	− 3	−7
14	57.59	28.27	− 5	+5	60.62	38.13	+ 6	+4	58.29	46.60	+ 5	−4	51.35	52.29	− 7	−6
15	57.77	28.57	− 3	+7	60.62	38.44	+ 6	+1	58.13	46.84	+ 2	−6	51.07	52.40	−10	−4
16	57.94	28.87	0	+8	60.62	38.75	+ 6	−2	57.96	47.08	− 1	−7	50.79	52.50	−12	0
17	58.11	29.17	+ 3	+7	60.61	39.05	+ 4	−5	57.79	47.32	− 5	−7	50.50	52.60	−11	+4
18	58.27	29.47	+ 5	+6	60.59	39.35	+ 1	−7	57.62	47.55	− 9	−5	50.21	52.69	− 8	+7
19	58.43	29.77	+ 6	+3	60.57	39.66	− 3	−7	57.44	47.78	−11	−2	49.92	52.77	− 4	+8
20	58.58	30.07	+ 6	0	60.55	39.96	− 7	−7	57.26	48.00	−12	+2	49.63	52.86	+ 1	+8
21	58.72	30.38	+ 5	−3	60.52	40.26	−11	−4	57.07	48.23	−11	+5	49.34	52.93	+ 5	+6
22	58.86	30.68	+ 3	−6	60.48	40.56	−12	−1	56.87	48.44	− 7	+8	49.05	53.00	+ 8	+3
23	59.00	30.99	− 1	−7	60.44	40.86	−12	+3	56.68	48.66	− 2	+9	48.75	53.07	+ 9	−2
24	59.13	31.29	− 5	−7	60.39	41.15	− 9	+7	56.48	48.87	+ 3	+8	48.45	53.13	+ 8	−6
25	59.25	31.60	− 9	−6	60.33	41.45	− 5	+8	56.27	49.08	+ 7	+5	48.15	53.18	+ 5	−8
26	59.37	31.91	−11	−3	60.27	41.74	+ 1	+9	56.06	49.28	+10	0	47.85	53.23	+ 1	−9
27	59.49	32.22	−12	+1	60.20	42.03	+ 6	+6	55.84	49.48	+10	−4	47.54	53.28	− 2	−7
28	59.60	32.53	−10	+5	60.13	42.32	+10	+3	55.62	49.68	+ 8	−7	47.24	53.31	− 5	−4
29	59.71	32.85	− 6	+8	60.06	42.60	+11	−2	55.40	49.87	+ 4	−9	46.93	53.34	− 6	−1
30	59.81	33.16	− 1	+9	59.98	42.88	+10	−6	55.17	50.05	0	−8	46.63	53.37	− 5	+3
31	59.90	33.47	+ 4	+8	59.89	43.16	+ 7	−8	54.94	50.24	− 3	−6	46.32	53.39	− 3	+6
32	59.99 / 60.07	33.78 / 34.10	+ 9 / +11	+5 / 0					54.71	50.41	− 5	−3	46.01	53.40	0	+7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−86° 15′ 20″	15.312	−15.280	−86° 15′ 30″	15.324	−15.291	−86° 15′ 50″	15.347	−15.314
30	15.324	−15.291	40	15.335	−15.303	60	15.358	−15.325

$\alpha_{1938.0} = 16^h\ 37^m\ 22^s.06$ $\delta_{1938.0} = -86°\ 15'\ 33''.21$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Sf) Octantis 26 G. $6^m.13$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$16^h 37^m$	$-86° 15'$	in $0^s.01$	in $0''.01$	$16^h 37^m$	$-86° 15'$	in $0^s.01$	in $0''.01$	$16^h 37^m$	$-86° 15'$	in $0^s.01$	in $0''.01$	$16^h 37^m$	$-86° 15'$	in $0^s.01$	in $0''.01$
1	46.01	53.40	0	+7	36.96	51.12	+7	+5	30.40	43.93	+5	−5	*)29.31	34.50	−5	−7
2	45.70	53.41	+3	+7	36.69	50.96	+8	+2	30.27	43.64	+1	−7	29.38	34.18	−9	−5
3	45.39	53.41	+6	+6	36.42	50.79	+8	−1	30.15	43.34	−2	−7	29.45	33.86	−11	−2
4	45.08	53.41	+7	+4	36.15	50.62	+6	−4	30.03	43.05	−6	−7	29.53	33.54	−12	+1
5	44.77	53.40	+9	+1	35.89	50.44	+3	−6	29.92	42.75	−9	−4	29.62	33.22	−10	+5
6	44.45	53.38	+7	−2	35.63	50.26	0	−7	29.82	42.45	−11	−1	29.72	32.91	−6	+8
7	44.14	53.36	+5	−5	35.37	50.07	−4	−7	29.72	42.14	−10	+3	29.82	32.59	−1	+8
8	43.83	53.33	+2	−7	35.12	49.87	−7	−6	29.63	41.84	−8	+6	29.92	32.28	+4	+7
9	43.52	53.30	−1	−7	34.87	49.68	−10	−3	29.54	41.53	−4	+8	30.04	31.96	+8	+4
10	43.21	53.26	−5	−7	34.63	49.47	−11	0	29.46	41.22	+1	+8	30.16	31.65	+10	0
11	42.90	53.22	−8	−5	34.38	49.26	−9	+4	29.39	40.91	+6	+6	30.29	31.34	+10	−4
12	42.59	53.17	−10	−2	34.15	49.05	−6	+7	29.32	40.60	+9	+3	30.42	31.03	+8	−7
13	42.28	53.11	−10	+2	33.91	48.83	−2	+8	29.26	40.29	+10	−1	30.56	30.72	+4	−9
14	41.97	53.05	−9	+5	33.68	48.61	+3	+7	29.20	39.97	+9	−5	30.71	30.42	0	−8
15	41.67	52.98	−5	+8	33.45	48.38	+6	+5	29.16	39.65	+6	−8	30.86	30.11	−3	−6
16	41.36	52.91	−1	+8	33.23	48.15	+9	+1	29.12	39.34	+2	−8	31.02	29.81	−5	−3
17	41.05	52.83	+4	+7	33.02	47.92	+9	−3	29.08	39.02	−2	−7	31.19	29.52	−6	+1
18	40.75	52.74	+7	+4	32.81	47.68	+7	−6	29.05	38.70	−5	−5	31.36	29.22	−4	+4
19	40.45	52.65	+9	0	32.60	47.44	+4	−8	29.03	38.38	−6	−1	31.53	28.93	−2	+6
20	40.15	52.56	+8	−4	32.40	47.19	0	−8	29.02	38.06	−6	+2	31.72	28.64	+1	+7
21	39.85	52.45	+6	−7	32.21	46.94	−4	−6	29.01	37.73	−4	+5	31.91	28.35	+4	+7
22	39.55	52.34	+2	−8	32.02	46.68	−6	−3	29.01	37.41	−1	+7	32.10	28.07	+6	+5
23	39.25	52.23	−1	−8	31.83	46.42	−7	0	29.02	37.09	+2	+7	32.30	27.79	+7	+3
24	38.95	52.11	−4	−5	31.65	46.16	−5	+3	29.03	36.76	+4	+6	32.51	27.51	+7	0
25	38.66	51.98	−6	−2	31.47	45.89	−3	+6	29.05	36.44	+6	+5	32.72	27.23	+6	−3
26	38.37	51.85	−6	+1	31.30	45.62	0	+7	29.08	36.11	+7	+2	32.94	26.96	+4	−5
27	38.09	51.72	−5	+5	31.14	45.35	+3	+7	29.11	35.79	+7	−1	33.16	26.69	0	−6
28	37.80	51.57	−2	+7	30.98	45.07	+6	+6	29.15	35.47	+5	−4	33.39	26.42	−3	−7
29	37.52	51.43	+1	+8	30.82	44.79	+7	+3	29.20	35.15	+2	−6	33.63	26.16	−7	−6
30	37.24	51.28	+4	+7	30.68	44.51	+8	+1	29.25	34.82	−1	−7	33.87	25.90	−10	−4
31	36.96	51.12	+7	+5	30.53	44.22	+7	−2	29.31	34.50	−5	−7	34.12	25.64	−12	0
32					30.40	43.93	+5	−5					34.37	25.39	−12	+4

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−86° 15′ 20″	15.312	−15.280	−86° 15′ 30″	15.324	−15.291	−86° 15′ 50″	15.347	−15.314
30	15.324	−15.291	40	15.335	−15.303	60	15.358	−15.325

$\alpha_{1938.0} = 16^h\ 37^m\ 22^s.06$ $\delta_{1938.0} = -86°\ 15'\ 33''.21$

*) Tag der doppelten unteren Kulmination: Dez. 1.

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Sg) χ Octantis $5^{m}.22$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$18^h 18^m$	$-87° 39'$	in $0^s.01$	in $0''.01$	$18^h 18^m$	$-87° 39'$	in $0^s.01$	in $0''.01$	$18^h 18^m$	$-87° 39'$	in $0^s.01$	in $0''.01$	$18^h 19^m$	$-87° 39'$	in $0^s.01$	in $0''.01$
1	$18^s.83$	$25''.01$	+ 3	+7	$29^s.11$	$15''.75$	+ 9	−3	$44^s.17$	$10''.26$	+ 8	−5	$3^s.54$	$8''.37$	−11	−7
2	19.03	24.68	+ 6	+5	29.57	15.50	+ 6	−6	44.77	10.13	+ 4	−8	4.16	8.39	−15	−4
3	19.23	24.35	+ 9	+2	30.04	15.25	+ 1	−8	45.37	10.00	− 2	−9	4.79	8.41	−16	0
4	19.44	24.02	+ 9	−1	30.51	15.01	− 5	−9	45.98	9.88	− 8	−8	5.41	8.43	−13	+5
5	19.66	23.69	+ 8	−5	30.99	14.77	−11	−8	46.59	9.76	−13	−6	6.04	8.46	− 7	+7
6	19.90	23.37	+ 4	−7	31.48	14.53	−16	−5	47.20	9.65	−16	−2	6.66	8.50	0	+9
7	20.14	23.04	− 2	−9	31.97	14.30	−17	−1	47.81	9.54	−16	+2	7.28	8.54	+ 7	+8
8	20.39	22.72	− 8	−9	32.47	14.07	−16	+4	48.43	9.43	−12	+6	7.90	8.59	+13	+5
9	20.66	22.39	−14	−7	32.98	13.84	−11	+7	49.05	9.33	− 6	+8	8.52	8.64	+16	+1
10	20.93	22.08	−18	−3	33.49	13.62	− 4	+9	49.67	9.23	+ 2	+8	9.13	8.69	+15	−3
11	21.21	21.76	−18	+1	34.01	13.41	+ 4	+9	50.30	9.14	+ 9	+7	9.74	8.75	+12	−6
12	21.50	21.45	−15	+5	34.54	13.19	+11	+6	50.92	9.06	+14	+3	10.35	8.81	+ 7	−7
13	21.80	21.14	− 8	+8	35.07	12.99	+16	+2	51.55	8.98	+16	0	10.96	8.88	0	−7
14	22.11	20.83	0	+9	35.60	12.78	+16	−2	52.17	8.90	+14	−4	11.56	8.96	− 5	−6
15	22.43	20.52	+ 8	+8	36.14	12.58	+14	−6	52.80	8.83	+10	−7	12.17	9.03	− 9	−3
16	22.75	20.22	+15	+4	36.69	12.39	+ 9	−7	53.43	8.77	+ 4	−8	12.76	9.11	−10	+1
17	23.09	19.92	+18	0	37.24	12.20	+ 3	−8	54.06	8.71	− 2	−7	13.36	9.20	−10	+4
18	23.43	19.62	+17	−4	37.79	12.01	− 3	−6	54.69	8.65	− 7	−5	13.95	9.29	− 7	+6
19	23.79	19.33	+13	−7	38.35	11.83	− 8	−4	55.32	8.60	− 9	−2	14.54	9.39	− 4	+7
20	24.15	19.03	+ 7	−8	38.91	11.65	−10	0	55.96	8.55	−10	+2	15.12	9.48	+ 1	+8
21	24.52	18.74	+ 1	−7	39.48	11.48	−10	+3	56.59	8.51	− 9	+5	15.71	9.59	+ 5	+7
22	24.90	18.46	− 5	−5	40.05	11.31	− 7	+6	57.23	8.47	− 6	+7	16.28	9.70	+ 8	+4
23	25.28	18.17	− 8	−2	40.63	11.15	− 4	+7	57.86	8.44	− 2	+8	16.86	9.81	+10	+1
24	25.68	17.89	−10	+1	41.21	10.99	+ 1	+8	58.49	8.41	+ 3	+7	17.43	9.92	+ 9	−2
25	26.08	17.61	− 9	+4	41.79	10.83	+ 5	+7	59.12	8.39	+ 7	+6	18.00	10.05	+ 6	−6
26	26.49	17.33	− 6	+7	42.38	10.68	+ 8	+4	59.76	8.38	+ 9	+3	18.56	10.17	+ 2	−8
27	26.91	17.06	− 2	+8	42.97	10.54	+10	+1	60.39	8.37	+10	0	19.12	10.30	− 4	−9
28	27.34	16.79	+ 2	+8	43.57	10.40	+10	−2	61.02	8.36	+ 9	−4	19.68	10.43	−10	−8
29	27.77	16.53	+ 6	+6	44.17	10.26	+ 8	−5	61.65	8.36	+ 5	−7	20.23	10.57	−15	−5
30	28.21	16.26	+ 9	+3					62.28	8.36	0	−9	20.78	10.71	−16	−1
31	28.66	16.01	+10	0					62.91	8.36	− 6	−9	21.32	10.86	−15	+3
32	29.11	15.75	+ 9	−3					63.54	8.37	−11	−7				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 39′ 0″	24.388	−24.368	−87° 39′ 10″	24.417	−24.396	−87° 39′ 20″	24.446	−24.425
10	24.417	−24.396	20	24.446	−24.425	30	24.475	−24.454

$\alpha_{1938.0} = 18^h\ 18^m\ 41^s.15$ $\delta_{1938.0} = -87°\ 39'\ 31''.70$

Sg) χ Octantis $5^m.22$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
		—	in			—	in			—	in			—	in	
	$18^h 19^m$	87° 39′	$0^s.01$	$0''.01$	$18^h 19^m$	87° 39′	$0^s.01$	$0''.01$	$18^h 19^m$	87° 39′	$0^s.01$	$0''.01$	$18^h 19^m$	87° 39′	$0^s.01$	$0''.01$
1	$21^s.32$	$10''.86$	−15	+3	$35^s.18$	$17''.21$	+ 9	+7	$41^s.67$	$25''.96$	+15	−6	$39^s.33$	$34''.88$	− 5	−5
2	21.85	11.01	−10	+6	35.52	17.47	+15	+4	41.73	26.26	+10	−8	39.10	35.15	− 8	−1
3	22.39	11.16	− 3	+8	35.85	17.72	+18	0	41.79	26.56	+ 4	−8	38.87	35.40	− 8	+3
4	22.91	11.32	+ 5	+8	36.17	17.98	+16	−4	41.83	26.85	− 2	−6	38.63	35.66	− 7	+6
5	23.43	11.48	+12	+6	36.48	18.24	+13	−7	41.87	27.15	− 7	−3	38.38	35.91	− 3	+8
6	23.95	11.65	+16	+3	36.79	18.51	+ 7	−8	41.90	27.45	− 9	0	38.13	36.17	+ 1	+8
7	24.46	11.82	+17	−1	37.09	18.78	0	−7	41.91	27.75	− 8	+4	37.86	36.41	+ 5	+7
8	24.97	12.00	+15	−5	37.37	19.04	− 5	−5	41.92	28.04	− 6	+6	37.59	36.66	+ 9	+5
9	25.47	12.17	+10	−7	37.65	19.32	− 8	−2	41.92	28.34	− 2	+7	37.31	36.90	+10	+3
10	25.96	12.36	+ 3	−7	37.93	19.59	− 9	+2	41.91	28.64	+ 2	+7	37.02	37.14	+10	0
11	26.45	12.54	− 3	−6	38.19	19.86	− 8	+5	41.89	28.94	+ 6	+6	36.72	37.37	+ 9	−4
12	26.93	12.73	− 7	−4	38.44	20.14	− 5	+7	41.86	29.23	+ 9	+4	36.42	37.60	+ 5	−6
13	27.40	12.92	−10	−1	38.69	20.42	− 2	+7	41.82	29.53	+10	+1	36.10	37.83	0	−8
14	27.87	13.12	−10	+3	38.93	20.69	+ 2	+7	41.78	29.82	+10	−2	35.78	38.05	− 6	−8
15	28.34	13.32	− 8	+5	39.16	20.98	+ 6	+6	41.72	30.12	+ 7	−5	35.45	38.27	−12	−7
16	28.80	13.52	− 5	+7	39.38	21.26	+ 8	+3	41.65	30.41	+ 3	−7	35.12	38.49	−16	−4
17	29.25	13.73	− 1	+8	39.59	21.55	+ 9	0	41.57	30.70	− 3	−8	34.77	38.70	−18	0
18	29.69	13.94	+ 3	+7	39.79	21.83	+ 8	−3	41.49	30.99	− 9	−8	34.42	38.91	−16	+4
19	30.13	14.16	+ 7	+5	39.99	22.12	+ 5	−6	41.39	31.28	−15	−6	34.07	39.11	−11	+6
20	30.56	14.38	+ 9	+2	40.17	22.41	0	−8	41.29	31.56	−18	−3	33.71	39.31	− 4	+8
21	30.99	14.60	+ 9	−1	40.35	22.70	− 6	−9	41.18	31.85	−18	+1	33.34	39.51	+ 3	+7
22	31.40	14.82	+ 7	−5	40.52	22.99	−12	−8	41.05	32.13	−15	+5	32.96	39.70	+10	+5
23	31.81	15.05	+ 3	−7	40.67	23.29	−17	−5	40.92	32.42	− 9	+8	32.58	39.89	+14	+1
24	32.22	15.28	− 2	−9	40.82	23.58	−19	−1	40.78	32.70	− 1	+8	32.19	40.07	+15	−2
25	32.62	15.51	− 8	−9	40.96	23.87	−17	+3	40.63	32.98	+ 7	+7	31.79	40.25	+12	−6
26	33.01	15.74	−14	−7	41.09	24.17	−12	+6	40.47	33.26	+13	+4	31.39	40.42	+ 7	−8
27	33.39	15.98	−17	−3	{41.21 {41.32	24.47 24.77	− 4 + 5	+8} +8}	40.30	33.54	+16	0	30.99	40.59	+ 1	−8
28	33.76	16.22	−17	+1	41.42	25.07	+12	+6	40.13	33.81	+15	−4	30.57	40.76	− 4	−6
29	34.13	16.46	−14	+5	41.51	25.37	+17	+2	39.94	34.08	+12	−7	30.15	40.92	− 8	−3
30	34.49	16.71	− 7	+8	41.59	25.66	+18	−2	39.74	34.35	+ 6	−8	29.73	41.07	− 9	+1
31	34.84	16.96	+ 1	+9	41.67	25.96	+15	−6	39.54	34.62	0	−7	29.30	41.22	− 8	+4
32	35.18	17.21	+ 9	+7					39.33	34.88	− 5	−5	28.86	41.37	− 5	+7

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 39′ 10″	24.417	−24.396	−87° 39′ 20″	24.446	−24.425	−87° 39′ 40″	24.504	−24.483
20	24.446	−24.425	30	24.475	−24.454	50	24.533	−24.513

$\alpha_{1938.0} = 18^h\ 18^m\ 41^s.15$ $\delta_{1938.0} = -87°\ 39'\ 31''.70$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Sg) χ Octantis $5^m.22$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$18^h 19^m$	— $87° 39'$	in $0^s.01$	in $0''.01$	$18^h 18^m$	— $87° 39'$	in $0^s.01$	in $0''.01$	$18^h 18^m$	— $87° 39'$	in $0^s.01$	in $0''.01$	$18^h 18^m$	— $87° 39'$	in $0^s.01$	in $0''.01$
1	$28^s.86$	$41''.37$	− 5	+7	$74^s.14$	$43''.17$	+ 6	+7	$59^s.48$	$39''.46$	+10	−3	$51^s.03$	$31''.43$	− 3	−8
2	28.42	41.51	0	+8	73.63	43.14	+ 9	+5	59.08	39.25	+ 6	−6	50.89	31.11	− 9	−8
3	27.97	41.64	+ 4	+8	73.12	43.10	+11	+2	58.69	39.04	+ 1	−8	50.76	30.79	−14	−6
4	27.52	41.77	+ 8	+6	72.61	43.06	+11	−1	58.30	38.82	− 5	−8	50.64	30.47	−17	−3
5	27.06	41.89	+10	+4	72.10	43.01	+ 9	−5	57.92	38.59	−11	−7	50.53	30.15	−17	+1
6	26.60	42.01	+11	+1	71.59	42.95	+ 5	−7	57.55	38.37	−15	−4	50.44	29.82	−14	+5
7	26.14	42.13	+10	−3	71.08	42.89	− 1	−8	57.19	38.13	−16	−1	50.35	29.50	− 7	+7
8	25.67	42.23	+ 7	−5	70.58	42.82	− 7	−8	56.84	37.90	−15	+3	50.28	29.17	0	+8
9	25.20	42.34	+ 3	−7	70.07	42.75	−12	−6	56.49	37.66	−10	+6	50.21	28.84	+ 8	+7
10	24.72	42.44	− 3	−8	69.57	42.67	−15	−3	56.15	37.41	− 3	+8	50.16	28.51	+14	+4
11	24.24	42.53	− 9	−7	69.07	42.59	−15	+1	55.82	37.16	+ 4	+8	50.11	28.18	+16	0
12	23.75	42.62	−14	−5	68.58	42.50	−13	+5	55.49	36.91	+11	+5	50.08	27.84	+15	−4
13	23.26	42.70	−16	−2	68.08	42.40	− 8	+7	55.17	36.65	+15	+2	50.06	27.50	+11	−7
14	22.77	42.78	−16	+2	67.59	42.30	− 1	+8	54.86	36.39	+16	−2	50.04	27.17	+ 5	−8
15	22.27	42.85	−12	+5	67.10	42.19	+ 6	+7	54.56	36.12	+13	−5	50.04	26.83	− 1	−7
16	21.78	42.91	− 6	+7	66.61	42.07	+12	+4	54.27	35.86	+ 8	−7	50.05	26.49	− 6	−4
17	21.28	42.97	+ 1	+8	66.13	41.95	+14	0	53.99	35.58	+ 2	−7	50.07	26.16	− 9	−1
18	20.78	43.02	+ 8	+6	65.66	41.82	+14	−3	53.72	35.31	− 4	−6	50.10	25.82	− 9	+3
19	20.28	43.06	+12	+3	65.18	41.69	+10	−6	53.46	35.03	− 8	−3	50.14	25.48	− 7	+5
20	19.77	43.10	+14	−1	64.72	41.55	+ 5	−8	53.20	34.75	−10	0	50.19	25.15	− 3	+7
21	19.27	43.14	+12	−5	64.25	41.41	− 1	−7	52.96	34.46	− 9	+3	50.26	24.81	+ 1	+8
22	18.76	43.17	+ 8	−7	63.79	41.26	− 6	−5	52.72	34.17	− 6	+6	50.33	24.48	+ 5	+7
23	18.25	43.19	+ 3	−8	63.34	41.10	− 9	−2	52.49	33.88	− 2	+8	50.41	24.14	+ 8	+5
24	17.74	43.21	− 3	−6	62.89	40.94	−10	+2	52.27	33.58	+ 2	+8	50.50	23.81	+10	+3
25	17.22	43.22	− 7	−4	62.44	40.77	− 8	+5	52.07	33.28	+ 6	+6	50.61	23.47	+10	0
26	16.71	43.22	−10	−1	62.00	40.60	− 5	+7	51.87	32.98	+ 9	+4	*)50.72	23.14	+ 8	−4
27	16.19	43.22	−10	+3	61.57	40.42	0	+8	51.68	32.67	+10	+2	50.85	22.80	+ 5	−6
28	15.68	43.22	− 7	+6	61.14	40.24	+ 4	+8	51.50	32.37	+10	−2	50.98	22.47	0	−8
29	15.17	43.21	− 3	+8	60.71	40.05	+ 8	+6	51.34	32.06	+ 7	−5	51.13	22.13	− 7	−8
30	14.66	43.19	+ 2	+8	60.30	39.86	+10	+3	51.18	31.74	+ 3	−7	51.28	21.80	−13	−7
31	14.14	43.17	+ 6	+7	59.88	39.66	+11	0	51.03	31.43	− 3	−8	51.45	21.46	−17	−4
32					59.48	39.46	+10	−3					51.63	21.13	−19	−1

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 39′ 20″	24.446	−24.425	−87° 39′ 30″	24.475	−24.454	−87° 39′ 40″	24.504	−24.483
30	24.475	−24.454	40	24.504	−24.483	50	24.533	−24.513

$\alpha_{1938.0} = 18^h\ 18^m\ 41^s.15$ $\qquad$ $\delta_{1938.0} = -\ 87°\ 39'\ 31''.70$

*) Tag der doppelten unteren Kulmination: Dez. 26.

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Sh) σ Octantis $5^{m}.48$

Tag	Januar				Februar				März				April			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
		—	in			—	in			—	in			—	in	
	$19^{h}57^{m}$	89° 10′	$0^{s}.01$	$0''.01$	$19^{h}57^{m}$	89° 10′	$0^{s}.01$	$0''.01$	$19^{h}58^{m}$	89° 9′	$0^{s}.01$	$0''.01$	$19^{h}59^{m}$	89° 9′	$0^{s}.01$	$0''.01$
1	45.59	24.63	− 6	+ 7	53.30	13.55	+29	− 1	20.81	64.66	+30	− 3	6.40	57.98	−15	− 9
2	45.43	24.28	+ 6	+ 6	53.98	13.20	+27	− 4	22.08	64.39	+24	− 6	8.03	57.83	−30	− 7
3	45.29	23.93	+18	+ 4	54.68	12.86	+19	− 7	23.37	64.12	+12	− 9	9.67	57.69	−39	− 3
4	45.17	23.58	+26	+ 1	55.41	12.51	+ 4	− 9	24.67	63.85	− 4	− 9	11.31	57.55	−40	+ 1
5	45.08	23.22	+28	− 3	56.16	12.17	−14	− 9	25.99	63.59	−22	− 8	12.95	57.42	−32	+ 5
6	45.02	22.87	+23	− 6	56.94	11.83	−30	− 8	27.33	63.33	−36	− 6	14.60	57.29	−16	+ 8
7	44.99	22.51	+12	− 9	57.74	11.49	−42	− 4	28.68	63.07	−42	− 2	16.25	57.17	+ 4	+ 9
8	44.99	22.15	− 4	−10	58.56	11.15	−46	0	30.05	62.82	−40	+ 2	17.91	57.05	+24	+ 7
9	45.02	21.79	−22	− 9	59.41	10.82	−40	+ 4	31.43	62.57	−29	+ 6	19.57	56.94	+38	+ 4
10	45.07	21.43	−38	− 7	60.28	10.48	−24	+ 7	32.82	62.32	−11	+ 8	21.24	56.83	+44	+ 1
11	45.16	21.07	−47	− 3	61.17	10.15	− 4	+ 9	34.23	62.08	+ 9	+ 8	22.91	56.72	+41	− 3
12	45.27	20.71	−46	+ 1	62.09	9.82	+18	+ 8	35.65	61.84	+28	+ 6	24.58	56.62	+30	− 5
13	45.41	20.35	−35	+ 5	63.02	9.50	+35	+ 5	37.08	61.61	+40	+ 3	26.25	56.52	+14	− 6
14	45.58	19.99	−16	+ 8	63.98	9.18	+44	+ 2	38.53	61.38	+43	− 1	27.93	56.43	− 2	− 6
15	45.77	19.62	+ 8	+ 9	64.97	8.86	+45	− 2	39.99	61.15	+38	− 4	29.61	56.35	−17	− 4
16	46.00	19.26	+30	+ 7	65.97	8.54	+36	− 5	41.46	60.93	+25	− 6	31.29	56.27	−27	− 2
17	46.25	18.90	+44	+ 4	67.00	8.23	+19	− 7	42.94	60.71	+ 9	− 7	32.97	56.20	−31	+ 1
18	46.53	18.54	+50	0	68.04	7.91	+ 4	− 7	44.44	60.50	− 8	− 6	34.65	56.13	−30	+ 4
19	46.84	18.18	+45	− 3	69.11	7.60	−12	− 5	45.95	60.29	−21	− 4	36.33	56.07	−23	+ 6
20	*)47.17	17.82	+33	− 5	70.19	7.30	−24	− 2	47.47	60.09	−29	− 1	38.01	56.01	−13	+ 7
21	47.54	17.46	+15	− 7	71.30	6.99	−30	+ 1	48.99	59.89	−31	+ 2	39.69	55.96	− 1	+ 7
22	47.93	17.10	− 3	− 6	72.43	6.69	−30	+ 4	50.53	59.69	−28	+ 5	41.37	55.91	+12	+ 6
23	48.35	16.74	−17	− 4	73.57	6.39	−24	+ 6	52.08	59.50	−19	+ 7	43.05	55.87	+22	+ 3
24	48.80	16.38	−27	− 1	74.73	6.09	−13	+ 7	53.64	59.31	− 7	+ 7	44.72	55.83	+28	0
25	49.27	16.03	−30	+ 2	75.91	5.80	− 1	+ 7	55.21	59.13	+ 6	+ 7	46.39	55.80	+27	− 4
26	49.77	15.67	−28	+ 5	77.11	5.51	+12	+ 6	56.78	58.95	+18	+ 5	48.06	55.77	+20	− 7
27	50.29	15.31	−20	+ 6	78.33	5.22	+23	+ 3	58.37	58.78	+26	+ 2	49.73	55.74	+ 7	− 9
28	50.84	14.95	− 8	+ 7	79.56	4.94	+29	0	59.96	58.61	+30	− 2	51.40	55.72	−10	−10
29	51.42	14.60	+ 4	+ 7	80.81	4.66	+30	− 3	61.56	58.45	+27	− 5	53.06	55.70	−26	− 8
30	52.02	14.25	+16	+ 5					63.17	58.29	+17	− 8	54.72	55.69	−38	− 5
31	52.65	13.90	+25	+ 2					64.78	58.13	+ 2	− 9	56.38	55.68	−42	− 1
32	53.30	13.55	+29	− 1					66.40	57.98	−15	− 9				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−89° 9′ 50″	68.529	−68.522	−89° 10′ 0″	68.757	−68.750	−89° 10′ 20″	69.219	−69.212
60	68.757	−68.750	10	68.987	−68.980	30	69.452	−69.445

$\alpha_{1938.0} = 19^{h}\ 58^{m}\ 57^{s}.63$ $\delta_{1938.0} = -89°\ 10'\ 24''.73$

*) Tag der doppelten unteren Kulmination: Jan. 20.

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Sh) σ Octantis $5^{m}.48$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder in		Juni AR.	Juni Dekl.	Juni ☾ Glieder in		Juli AR.	Juli Dekl.	Juli ☾ Glieder in		August AR.	August Dekl.	August ☾ Glieder in	
	$19^h\,59^m$	−89° 9′	0.01 s	0.01″	$20^h\,0^m$	−89° 9′	0.01 s	0.01″	$20^h\,1^m$	−89° 10′	0.01 s	0.01″	$20^h\,1^m$	−89° 10′	0.01 s	0.01″
1	56.38	55.68	−42	−1	43.91	57.95	+10	+9	16.63	4.08	+48	+2	28.85	13.17	−5	−5
2	58.03	55.68	−36	+3	45.26	58.10	+30	+7	17.40	4.34	+48	−2	28.80	13.46	−19	−3
3	59.68	55.68	−22	+7	46.60	58.25	+44	+4	18.15	4.59	+38	−5	28.72	13.76	−26	0
4	61.32	55.69	−2	+9	47.92	58.41	+49	+1	18.87	4.85	+22	−6	28.62	14.06	−27	+4
5	62.96	55.71	+19	+8	49.23	58.57	+44	−3	19.57	5.12	+5	−6	28.49	14.36	−22	+6
6	64.59	55.73	+36	+6	50.52	58.73	+31	−5	20.25	5.38	−12	−4	28.33	14.66	−12	+7
7	66.22	55.76	+45	+3	51.79	58.90	+13	−6	20.90	5.65	−23	−1	28.14	14.95	0	+8
8	67.84	55.79	+46	−1	53.05	59.07	−4	−5	21.53	5.92	−27	+2	27.92	15.25	+11	+7
9	69.46	55.83	+37	−4	54.28	59.25	−18	−3	22.13	6.19	−26	+4	27.68	15.55	+21	+5
10	71.06	55.87	+22	−6	55.50	59.43	−27	−1	22.71	6.46	−20	+6	27.41	15.85	+27	+2
11	72.66	55.91	+5	−6	56.70	59.62	−29	+2	23.27	6.74	−9	+7	27.11	16.14	+29	−1
12	74.25	55.96	−11	−5	57.88	59.81	−26	+5	23.80	7.02	+2	+7	26.79	16.43	+25	−4
13	75.83	56.02	−23	−3	59.05	60.00	−18	+6	24.30	7.30	+13	+6	26.44	16.72	+15	−7
14	77.41	56.08	−30	0	60.20	60.20	−8	+7	24.78	7.58	+22	+4	26.06	17.01	+1	−9
15	78.97	56.14	−30	+3	61.33	60.40	+4	+7	25.23	7.86	+27	+1	25.66	17.30	−16	−9
16	80.53	56.21	−26	+5	62.44	60.60	+15	+5	25.65	8.15	+27	−3	25.23	17.58	−32	−7
17	82.08	56.28	−16	+7	63.53	60.81	+23	+2	26.05	8.44	+21	−6	24.77	17.87	−44	−4
18	83.62	56.36	−5	+7	64.60	61.02	+27	−1	26.43	8.72	+9	−8	24.29	18.15	−47	0
19	85.14	56.44	+7	+6	65.66	61.24	+24	−4	26.78	9.01	−7	−9	23.78	18.43	−40	+3
20	86.66	56.53	+18	+4	66.69	61.46	+16	−7	27.10	9.31	−25	−9	23.25	18.71	−25	+6
21	88.16	56.62	+25	+1	67.70	61.68	+2	−10	27.40	9.60	−40	−7	22.69	18.99	−5	+8
22	89.66	56.72	+27	−3	68.69	61.90	−15	−10	27.67	9.90	−48	−3	22.10	19.26	+15	+7
23	91.14	56.82	+22	−6	69.66	62.13	−32	−8	27.91 / 28.12	10.19 / 10.49	−47 / −35	+1 / +5	21.49	19.54	+32	+5
24	92.61	56.93	+11	−9	70.61	62.36	−45	−5	28.31	10.78	−16	+7	20.85	19.81	+41	+1
25	94.07	57.04	−4	−10	71.54	62.60	−48	−1	28.47	11.08	+6	+8	20.19	20.08	+41	−3
26	95.52	57.16	−22	−9	72.44	62.84	−40	+3	28.60	11.38	+27	+6	19.50	20.34	+32	−5
27	96.95	57.28	−37	−7	73.32	63.08	−25	+7	28.71	11.68	+41	+3	18.79	20.60	+17	−7
28	98.37	57.41	−45	−3	74.18	63.33	−3	+9	28.79	11.97	+47	0	18.06	20.86	0	−6
29	99.78	57.54	−43	+2	75.02	63.58	+19	+8	28.85	12.27	+42	−4	17.30	21.12	−15	−4
30	101.17	57.67	−32	+6	75.84	63.83	+38	+6	28.88	12.57	+29	−6	16.52	21.38	−25	−1
31	102.55	57.81	−12	+8	76.63	64.08	+48	+2	28.88	12.87	+12	−6	15.71	21.63	−27	+2
32	103.91	57.95	+10	+9					28.85	13.17	−5	−5	14.88	21.88	−25	+5

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−89° 9′ 50″	68.529	−68.522	−89° 10′ 0″	68.757	−68.750	−89° 10′ 20″	69.219	−69.212
60	68.757	−68.750	10	68.987	−68.980	30	69.452	−69.445

$\alpha_{1938.0} = 19^h\ 58^m\ 57^s.63$ $\delta_{1938.0} = -89°\ 10'\ 24''.73$

Sh) σ Octantis $5^m.48$

Tag	September				Oktober				November				Dezember			
	AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder		AR.	Dekl.	☾ Glieder	
	$20^h 0^m$	— 89° 10′	in $0^s.01$	in $0''.01$	$19^h 59^m$	— 89° 10′	in $0^s.01$	in $0''.01$	$19^h 59^m$	— 89° 10′	in $0^s.01$	in $0''.01$	$19^h 58^m$	— 89° 10′	in $0^s.01$	in $0''.01$
1	$74^s.88$	$21''.88$	−25	+5	$100^s.61$	$27''.39$	+ 2	+8	$55^s.31$	$27''.86$	+29	−1	$77^s.22$	$22''.75$	+ 8	−8
2	74.02	22.12	−16	+7	99.23	27.50	+14	+6	53.86	27.78	+27	−4	76.22	22.50	− 8	−9
3	73.14	22.36	− 5	+8	97.84	27.60	+24	+4	52.42	27.69	+17	−7	75.24	22.24	−24	−9
4	72.24	22.60	+ 8	+7	96.43	27.69	+30	+1	50.98	27.59	+ 4	−9	74.28	21.98	−38	−6
5	71.32	22.83	+18	+6	95.02	27.78	+30	−2	49.56	27.49	−13	−9	73.35	21.71	−44	−3
6	70.37	23.06	+27	+3	93.60	27.86	+24	−5	48.14	27.38	−28	−8	72.44	21.44	−43	+1
7	69.41	23.29	+30	0	92.17	27.94	+13	−8	46.73	27.26	−39	−5	71.56	21.17	−31	+5
8	68.42	23.51	+28	−3	90.73	28.01	− 1	−9	45.33	27.14	−42	−1	70.70	20.89	−13	+7
9	67.41	23.73	+20	−6	89.28	28.08	−18	−8	43.94	27.01	−37	+3	69.86	20.61	+ 8	+8
10	66.38	23.95	+ 8	−8	87.83	28.14	−31	−6	42.57	26.87	−22	+6	69.05	20.32	+28	+6
11	65.32	24.16	− 8	−9	86.37	28.19	−40	−3	41.20	26.73	− 3	+8	68.26	20.03	+41	+3
12	64.25	24.37	−24	−8	84.90	28.24	−41	+1	39.85	26.58	+17	+7	67.49	19.73	+45	0
13	63.16	24.57	−37	−5	83.43	28.28	−32	+5	38.51	26.43	+33	+5	66.75	19.43	+40	−4
14	62.05	24.77	−43	−2	81.95	28.31	−16	+7	37.19	26.27	+42	+2	66.04	19.13	+27	−6
15	60.92	24.96	−41	+2	80.47	28.34	+ 2	+8	35.88	26.11	+42	−2	65.36	18.83	+10	−6
16	59.78	25.15	−29	+5	78.99	28.36	+21	+7	34.58	25.94	+33	−5	64.70	18.52	− 7	−5
17	58.61	25.33	−12	+7	77.51	28.38	+35	+4	33.30	25.77	+18	−6	64.07	18.21	−20	−3
18	57.43	25.51	+ 8	+7	76.02	28.39	+40	0	32.04	25.59	+ 1	−6	63.47	17.90	−27	+1
19	56.23	25.68	+26	+5	74.53	28.39	+37	−3	30.79	25.40	−14	−5	62.89	17.58	−27	+3
20	55.01	25.85	+37	+2	73.04	28.39	+26	−6	29.56	25.21	−24	−2	62.34	17.26	−21	+6
21	53.78	26.02	+40	−1	71.56	28.38	+10	−7	28.34	25.01	−29	+1	61.81	16.94	−12	+7
22	52.53	26.18	+34	−5	70.07	28.36	− 6	−6	27.14	24.81	−27	+4	61.31	16.61	0	+8
23	51.26	26.34	+21	−6	68.58	28.34	−19	−4	25.96	24.60	−20	+6	60.84	16.28	+11	+6
24	49.98	26.49	+ 5	−6	67.09	28.31	−28	−1	24.80	24.38	− 9	+7	60.39	15.95	+20	+5
25	48.68	26.64	−11	−5	65.61	28.28	−29	+2	23.66	24.16	+ 3	+7	59.97	15.61	+27	+2
26	47.37	26.78	−23	−3	64.12	28.24	−25	+5	22.54	23.94	+14	+6	59.58	15.28	+28	−1
27	46.04	26.91	−29	+1	62.64	28.19	−16	+7	21.43	23.71	+23	+4	59.22	14.94	+23	−4
28	44.70	27.04	−28	+4	61.16	28.14	− 4	+8	20.35	23.48	+28	+1	58.89	14.60	+13	−7
29	43.35	27.16	−21	+6	59.69	28.08	+ 8	+7	19.29	23.24	+27	−3	58.58	14.26	− 1	−9
30	41.99	27.28	−11	+8	58.22	28.01	+19	+5	18.24	23.00	+21	−6	58.31	13.92	−18	−9
31	40.61	27.39	+ 2	+8	56.76	27.94	+27	+2	17.22	22.75	+ 8	−8	58.06	13.58	−34	−8
32					55.31	27.86	+29	−1					57.84	13.23	−45	−5

δ	sec δ	tg δ	δ	sec δ	tg δ
−89° 10′ 10″	68.987	−68.980	−89° 10′ 20″	69.219	−69.212
20	69.219	−69.212	30	69.452	−69.445

$\alpha_{1938.0} = 19^h\ 58^m\ 57^s.63$ $\delta_{1938.0} = -89°\ 10'\ 24''.73$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Si) β Octantis $4^{m}.34$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
	$22^h 39^m$	$-81° 42'$	in $0.^s01$	in $0.''01$	$22^h 39^m$	$-81° 42'$	in $0.^s01$	in $0.''01$	$22^h 39^m$	$-81° 42'$	in $0.^s01$	in $0.''01$	$22^h 39^m$	$-81° 41'$	in $0.^s01$	in $0.''01$
1	45.89	37.72	−2	+5	43.42	28.84	+3	+3	43.02	18.61	+4	+1	44.69	67.26	0	−9
2	45.78	37.49	−1	+6	43.37	28.50	+4	0	*)43.04	18.23	+4	−2	44.78	66.92	−2	−9
3	45.67	37.27	+1	+5	43.33	28.16	+4	−3	43.07	17.86	+3	−5	44.87	66.58	−3	−7
4	45.56	37.04	+2	+4	43.29	27.81	+2	−7	43.09	17.48	+1	−8	44.96	66.25	−4	−4
5	45.46	36.80	+4	+2	43.25	27.46	0	−9	43.12	17.10	−1	−9	45.05	65.92	−4	0
6	45.36	36.56	+4	−2	43.21	27.11	−2	−10	43.15	16.72	−3	−9	45.14	65.59	−3	+4
7	45.26	36.31	+3	−5	43.18	26.76	−3	−9	43.18	16.35	−4	−7	45.24	65.26	−1	+7
8	45.16	36.06	+2	−8	43.15	26.40	−5	−6	43.22	15.97	−5	−3	45.34	64.94	+1	+9
9	45.06	35.80	0	−10	43.12	26.04	−5	−2	43.26	15.59	−4	+1	45.44	64.62	+3	+9
10	44.97	35.55	−2	−10	43.10	25.68	−4	+2	43.30	15.22	−3	+5	45.54	64.30	+4	+6
11	44.88	35.28	−4	−8	43.07	25.32	−2	+6	43.34	14.84	−1	+8	45.65	63.98	+5	+3
12	44.79	35.01	−5	−5	43.05	24.96	0	+9	43.38	14.47	+2	+9	45.75	63.67	+4	0
13	44.70	34.74	−5	0	43.03	24.60	+3	+9	43.43	14.10	+4	+8	45.86	63.36	+3	−3
14	44.61	34.47	−3	+5	43.01	24.23	+4	+7	43.47	13.72	+5	+5	45.97	63.05	+1	−5
15	44.52	34.18	−1	+8	42.99	23.86	+5	+4	43.52	13.35	+5	+2	46.08	62.75	−1	−6
16	44.44	33.90	+2	+10	42.98	23.49	+5	+1	43.57	12.99	+4	−1	46.19	62.45	−3	−5
17	44.36	33.61	+4	+9	42.97	23.12	+3	−2	43.63	12.62	+2	−4	46.31	62.15	−4	−3
18	44.28	33.32	+5	+7	42.96	22.75	+2	−5	43.68	12.25	0	−6	46.43	61.86	−4	−1
19	44.21	33.02	+5	+3	42.95	22.38	0	−5	43.74	11.88	−1	−5	46.55	61.57	−4	+2
20	44.13	32.72	+4	0	42.95	22.01	−2	−5	43.80	11.51	−3	−4	46.66	61.28	−3	+4
21	44.06	32.41	+3	−3	42.95	21.63	−3	−3	43.86	11.15	−4	−2	46.78	61.00	−1	+5
22	43.99	32.10	+1	−5	42.95	21.26	−4	−1	43.93	10.79	−4	+1	46.91	60.72	0	+6
23	43.92	31.79	−1	−5	42.95	20.88	−4	+2	44.00	10.43	−3	+3	47.03	60.44	+2	+5
24	43.86	31.48	−3	−4	42.96	20.51	−3	+4	44.07	10.07	−2	+5	47.15	60.17	+3	+3
25	43.79	31.16	−4	−2	42.97	20.13	−2	+5	44.14	9.71	−1	+6	47.28	59.90	+4	0
26	43.73	30.84	−4	0	42.98	19.75	0	+6	44.21	9.35	+1	+6	47.40	59.63	+4	−3
27	43.67	30.51	−3	+2	42.99	19.37	+2	+6	44.28	9.00	+2	+5	47.53	59.37	+3	−6
28	43.62	30.18	−2	+5	43.01	18.99	+3	+4	44.36	8.65	+3	+3	47.66	59.11	+1	−9
29	43.56	29.85	−1	+6	43.02	18.61	+4	+1	44.44	8.30	+4	−1	47.79	58.86	−1	−10
30	43.51	29.52	+1	+6					44.52	7.95	+3	−4	47.92	58.61	−3	−9
31	43.46	29.18	+2	+5					44.60	7.60	+2	−7	48.06	58.37	−4	−6
32	43.42	28.84	+3	+3					44.69	7.26	0	−9				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−81° 41′ 50″	6.925	−6.852	−81° 42′ 10″	6.930	−6.857	−81° 42′ 30″	6.934	−6.862
60	6.927	−6.855	20	6.932	−6.859	40	6.937	−6.864

$\alpha_{1938.0} = 22^h\ 39^m\ 50^s.50$ $\delta_{1938.0} = -81°\ 42'\ 27''.57$

*) Tag der doppelten unteren Kulmination: März 2.

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Si) β Octantis $4^{m}.34$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
		—	in			—	in			—	in			—	in	
	22^h39^m	81° 41′	$0^s.01$	$0''.01$	22^h39^m	81° 41′	$0^s.01$	$0''.01$	22^h39^m	81° 41′	$0^s.01$	$0''.01$	22^h40^m	81° 41′	$0^s.01$	$0''.01$
1	$48^s.06$	$58''.37$	−4	−6	52.67	53.08	−1	+8	57.30	52.74	+5	+8	$1^s.11$	$57''.28$	+2	−3
2	48.19	58.13	−5	−2	52.83	52.99	+2	+10	57.44	52.81	+5	+5	1.20	57.50	0	−5
3	48.33	57.89	−4	+3	52.99	52.91	+4	+9	57.59	52.89	+5	+1	1.29	57.72	−2	−4
4	48.46	57.66	−2	+7	53.14	52.83	+5	+7	57.73	52.97	+3	−2	1.38	57.95	−3	−3
5	48.60	57.43	0	+9	53.30	52.75	+5	+3	57.87	53.06	+2	−4	1.47	58.18	−4	−1
6	48.74	57.21	+2	+9	53.46	52.68	+4	0	58.01	53.15	0	−5	1.56	58.41	−4	+2
7	48.88	56.99	+4	+8	53.62	52.62	+3	−3	58.15	53.25	−2	−4	1.64	58.65	−3	+4
8	49.02	56.78	+5	+5	53.78	52.56	+1	−5	58.28	53.35	−3	−2	1.72	58.89	−2	+6
9	49.17	56.57	+5	+1	53.93	52.51	−1	−5	58.42	53.46	−4	0	1.80	59.13	0	+7
10	49.31	56.37	+3	−2	54.09	52.47	−3	−4	58.56	53.58	−3	+2	1.87	59.38	+1	+6
11	49.45	56.17	+2	−4	54.25	52.43	−4	−2	58.69	53.70	−2	+4	1.95	59.63	+2	+5
12	49.60	55.97	0	−6	54.41	52.39	−4	0	58.82	53.82	−1	+6	2.02	59.88	+3	+3
13	49.75	55.78	−2	−5	54.56	52.36	−3	+3	58.95	53.95	0	+6	2.08	60.14	+4	0
14	49.90	55.59	−3	−4	54.72	52.34	−2	+5	59.08	54.09	+2	+5	2.15	60.40	+3	−4
15	50.05	55.41	−4	−2	54.87	52.32	−1	+6	59.21	54.23	+3	+4	2.21	60.66	+2	−7
16	50.20	55.23	−4	+1	55.03	52.30	0	+6	59.34	54.37	+3	+1	2.27	60.92	0	−9
17	50.35	55.06	−3	+3	55.18	52.29	+2	+5	59.47	54.52	+3	−2	2.33	61.19	−2	−10
18	50.50	54.89	−2	+5	55.34	52.29	+3	+3	59.59	54.67	+3	−6	2.39	61.46	−4	−9
19	50.66	54.73	−1	+6	55.49	52.29	+3	0	59.71	54.83	+1	−8	2.44	61.73	−5	−6
20	50.81	54.57	+1	+5	55.65	52.30	+3	−4	59.83	54.99	−1	−10	2.49	62.00	−5	−2
21	50.96	54.42	+2	+4	55.80	52.32	+2	−7	59.95	55.16	−3	−10	2.54	62.28	−4	+2
22	51.12	54.27	+3	+1	55.95	52.33	0	−10	60.06	55.33	−4	−8	2.58	62.56	−2	+5
23	51.27	54.13	+4	−2	56.10	52.36	−2	−11	60.18	55.51	−5	−5	2.62	62.84	0	+8
24	51.42	53.99	+3	−5	56.26	52.39	−4	−10	60.29	55.69	−5	0	2.66	63.12	+2	+8
25	51.58	53.86	+2	−8	56.41	52.42	−5	−7	60.40	55.87	−3	+4	2.70	63.41	+4	+6
26	51.73	53.73	0	−10	56.56	52.46	−5	−2	60.51	56.06	−1	+7	2.73	63.70	+5	+3
27	51.89	53.61	−2	−10	56.71	52.51	−4	+2	60.61	56.25	+2	+9	2.76	63.99	+4	0
28	52.05	53.49	−4	−8	56.86	52.56	−2	+6	60.72	56.45	+4	+8	2.79	64.28	+3	−3
29	52.20	53.38	−5	−4	57.01	52.61	0	+9	60.82	56.65	+5	+6	2.82	64.57	+1	−5
30	52.36	53.28	−4	0	57.15	52.67	+3	+9	60.92	56.86	+5	+2	2.84	64.87	−1	−5
31	52.51	53.18	−3	+5	57.30	52.74	+5	+8	61.01	57.07	+4	−1	2.86	65.16	−3	−4
32	52.67	53.08	−1	+8					61.11	57.28	+2	−3	2.88 2.89	65.46 65.75	−3 −4	−2 +1

δ	sec δ	tg δ	δ	sec δ	tg δ
−81° 41′ 50″	6.925	−6.852	−81° 42′ 0″	6.927	−6.855
60	6.927	−6.855	10	6.930	−6.857

$\alpha_{1938.0} = 22^h\ 39^m\ 50^s.50$ $\delta_{1938.0} = -81°\ 42'\ 27''.57$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Si) β Octantis $4^m.34$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
	$22^h 40^m$	−81° 42′	in $0^s.01$	in $0''.01$	$22^h 39^m$	−81° 42′	in $0^s.01$	in $0''.01$	$22^h 39^m$	−81° 42′	in $0^s.01$	in $0''.01$	$22^h 39^m$	−81° 42′	in $0^s.01$	in $0''.01$
1	s 2.88 2.89	" 5.46 5.75	−3 −4	−2 +1	s 62.02	" 14.58	−1	+6	s 58.85	" 21.38	+3	+3	s 54.63	" 23.21	+3	−5
2	2.90	6.05	−3	+3	61.95	14.86	0	+7	58.72	21.53	+4	0	54.49	23.18	+1	−8
3	2.91	6.35	−2	+6	61.88	15.13	+2	+6	58.59	21.67	+3	−3	54.35	23.14	−1	−10
4	2.92	6.65	−1	+7	61.80	15.40	+3	+5	58.46	21.81	+2	−6	54.21	23.09	−3	−10
5	2.92	6.95	+1	+7	61.72	15.67	+4	+2	58.32	21.94	+1	−9	54.07	23.03	−4	−8
6	2.92	7.25	+2	+6	61.64	15.93	+4	−1	58.19	22.06	−1	−10	53.93	22.97	−5	−4
7	2.91	7.55	+3	+4	61.56	16.19	+3	−4	58.05	22.18	−3	−9	53.79	22.91	−4	0
8	2.91	7.85	+4	+1	61.47	16.44	+2	−7	57.92	22.30	−4	−6	53.65	22.84	−3	+4
9	2.90	8.15	+3	−2	61.39	16.70	0	−9	57.78	22.40	−5	−2	53.51	22.76	−1	+7
10	2.89	8.45	+3	−6	61.30	16.94	−2	−9	57.64	22.51	−4	+2	53.37	22.68	+2	+9
11	2.88	8.75	+1	−8	61.21	17.19	−4	−7	57.50	22.60	−2	+6	53.23	22.59	+4	+8
12	2.86	9.05	−1	−9	61.11	17.43	−4	−4	57.36	22.69	0	+8	53.09	22.49	+5	+6
13	2.84	9.35	−3	−9	61.02	17.67	−4	0	57.22	22.77	+2	+8	52.95	22.39	+5	+2
14	2.82	9.65	−4	−7	60.92	17.91	−3	+3	57.08	22.85	+4	+7	52.82	22.28	+4	−1
15	2.79	9.95	−5	−3	60.82	18.14	−1	+6	56.93	22.92	+5	+4	52.68	22.16	+2	−4
16	2.76	10.25	−4	+1	60.72	18.36	+1	+8	56.79	22.98	+4	+1	52.55	22.04	0	−5
17	2.73	10.55	−3	+4	60.62	18.59	+3	+7	56.65	23.04	+3	−3	52.42	21.91	−2	−5
18	2.70	10.85	−1	+7	60.51	18.81	+4	+5	56.51	23.10	+1	−5	52.28	21.77	−3	−3
19	2.66	11.15	+2	+8	60.41	19.02	+5	+2	56.36	23.14	−1	−5	52.15	21.63	−4	−1
20	2.62	11.44	+3	+7	60.30	19.23	+4	−1	56.22	23.19	−2	−5	52.03	21.49	−3	+2
21	2.58	11.73	+4	+4	60.19	19.43	+2	−4	56.07	23.22	−3	−3	51.90	21.34	−3	+4
22	2.54	12.03	+4	+1	60.07	19.63	+1	−5	55.93	23.25	−4	0	51.77	21.18	−2	+6
23	2.49	12.32	+4	−2	59.96	19.83	−1	−6	55.78	23.27	−3	+2	51.64	21.02	0	+6
24	2.44	12.61	+2	−4	59.84	20.02	−3	−4	55.64	23.28	−2	+5	51.52	20.85	+1	+6
25	2.39	12.90	0	−5	59.73	20.21	−4	−2	55.49	23.29	−1	+6	51.40	20.67	+2	+5
26	2.34	13.18	−2	−5	59.61	20.39	−4	+1	55.35	23.29	0	+6	51.28	20.49	+3	+2
27	2.28	13.47	−3	−3	59.49	20.57	−3	+3	55.21	23.29	+2	+6	51.16	20.31	+3	−1
28	2.22	13.75	−4	−1	59.36	20.74	−2	+5	55.06	23.28	+3	+4	51.04	20.12	+3	−4
29	2.16	14.03	−4	+2	59.24	20.91	−1	+6	54.92	23.26	+3	+1	50.92	19.92	+2	−7
30	2.09	14.31	−3	+4	59.11	21.07	+1	+7	54.78	23.24	+3	−2	50.81	19.72	0	−10
31	2.02	14.58	−1	+6	58.98	21.23	+2	+5	54.63	23.21	+3	−5	50.70	19.51	−2	−10
32					58.85	21.38	+3	+3					50.59	19.29	−4	−10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−81° 42′ 0″	6.927	−6.855	−81° 42′ 10″	6.930	−6.857	−81° 42′ 20″	6.932	−6.859
10	6.930	−6.857	20	6.932	−6.859	30	6.934	−6.862

$\alpha_{1938.0} = 22^h\ 39^m\ 50^s.50$ $\delta_{1938.0} = -81°\ 42'\ 27''.57$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Sk) τ Octantis $5^m.56$

Tag	Januar AR.	Januar Dekl.	Januar ☾ Glieder		Februar AR.	Februar Dekl.	Februar ☾ Glieder		März AR.	März Dekl.	März ☾ Glieder		April AR.	April Dekl.	April ☾ Glieder	
			in				in				in				in	
	$23^h 19^m$	$-87° 49'$	$0^s.01$	$0''.01$	$23^h 18^m$	$-87° 49'$	$0^s.01$	$0''.01$	$23^h 18^m$	$-87° 49'$	$0^s.01$	$0''.01$	$23^h 18^m$	$-87° 48'$	$0^s.01$	$0''.01$
1	$15^s.69$	$36''.29$	−10	+4	$62^s.75$	$28''.09$	+10	+4	$57^s.63$	$17''.89$	+13	+3	$59^s.98$	$66''.02$	+7	−8
2	15.18	36.10	−6	+5	62.45	27.76	+14	+1	57.57	17.51	+15	0	60.19	65.66	0	−9
3	14.67	35.91	0	+5	62.16	27.42	+15	−2	57.53	17.12	+14	−4	60.41	65.29	−7	−8
4	14.17	35.71	+6	+5	61.88	27.09	+13	−6	57.49	16.73	+10	−7	60.63	64.93	−13	−5
5	13.68	35.50	+11	+3	61.61	26.74	+8	−8	57.46	16.34	+4	−9	60.86	64.57	−16	−1
6	13.19	35.29	+14	0	61.34	26.40	+1	−10	57.44	15.96	−3	−9	61.10	64.22	−14	+3
7	12.70	35.07	+14	−4	61.08	26.05	−6	−10	57.43	15.57	−10	−8	61.35	63.86	−9	+7
8	12.22	34.85	+11	−7	60.84	25.71	−13	−7	57.43	15.18	−15	−4	61.61	63.51	−2	+9
9	11.74	34.62	+5	−10	60.60	25.35	−16	−3	57.44	14.79	−16	0	61.87	63.16	+5	+9
10	11.27	34.39	−2	−10	60.36	25.00	−15	+1	57.45	14.40	−13	+4	62.14	62.81	+11	+7
11	10.81	34.15	−9	−9	60.14	24.64	−12	+5	57.47	14.01	−7	+7	62.42	62.46	+15	+5
12	10.36	33.90	−15	−6	59.93	24.28	−5	+8	*)57.50	13.62	0	+9	62.70	62.12	+15	+1
13	9.91	33.66	−17	−1	59.72	23.92	+3	+9	57.55	13.24	+7	+8	62.99	61.78	+12	−2
14	9.47	33.40	−14	+3	59.52	23.56	+10	+8	57.60	12.85	+13	+6	63.29	61.44	+7	−5
15	9.03	33.14	−9	+7	59.33	23.19	+15	+6	57.66	12.46	+15	+3	63.60	61.11	0	−6
16	8.60	32.88	−1	+10	59.15	22.82	+16	+2	57.73	12.07	+14	0	63.92	60.78	−6	−5
17	8.18	32.61	+7	+10	58.98	22.45	+14	−1	57.80	11.69	+10	−3	64.24	60.45	−10	−4
18	7.77	32.34	+13	+8	58.82	22.07	+9	−4	57.89	11.30	+5	−5	64.57	60.12	−13	−2
19	7.36	32.06	+16	+5	58.66	21.70	+2	−5	57.99	10.92	−2	−6	64.90	59.80	−14	0
20	6.96	31.78	+16	+1	58.52	21.33	−4	−5	58.09	10.53	−8	−5	65.24	59.48	−13	+3
21	6.57	31.49	+12	−2	58.39	20.95	−10	−4	58.20	10.15	−12	−3	65.59	59.16	−9	+5
22	6.18	31.20	+6	−4	58.26	20.57	−13	−2	58.32	9.77	−14	−1	65.95	58.85	−3	+6
23	5.80	30.91	−1	−5	58.14	20.19	−14	0	58.45	9.39	−14	+2	66.31	58.54	+3	+5
24	5.43	30.61	−7	−5	58.04	19.81	−13	+3	58.59	9.01	−11	+4	66.68	58.24	+9	+4
25	5.07	30.31	−11	−3	57.94	19.43	−9	+5	58.73	8.63	−7	+5	67.05	57.93	+13	+2
26	4.72	30.00	−14	−1	57.85	19.05	−4	+6	58.89	8.25	−1	+6	67.43	57.64	+15	−2
27	4.37	29.69	−14	+1	57.77	18.66	+2	+6	59.05	7.88	+5	+5	67.82	57.34	+14	−5
28	4.03	29.38	−11	+3	57.69	18.28	+8	+5	59.22	7.50	+11	+3	68.21	57.05	+9	−8
29	3.70	29.06	−7	+5	57.63	17.89	+13	+3	59.40	7.13	+14	0	68.61	56.76	+3	−9
30	3.37	28.74	−2	+6					59.59	6.76	+14	−3	69.01	56.47	−5	−9
31	3.06	28.42	+4	+5					59.78	6.39	+12	−6	69.42	56.19	−11	−7
32	2.75	28.09	+10	+4					59.98	6.02	+7	−8				

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 48′ 50″	26.215	−26.196	−87° 49′ 10″	26.282	−26.263	−87° 49′ 30″	26.349	−26.330
60	26.249	−26.230	20	26.316	−26.297	40	26.383	−26.364

$\alpha_{1938.0} = 23^h\ 19^m\ 32^s.67$ $\delta_{1938.0} = -87°\ 49'\ 24''.20$

*) Tag der doppelten unteren Kulmination: März 12.

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Sk) τ Octantis $5^m.56$

Tag	Mai AR.	Mai Dekl.	Mai ☾ Glieder		Juni AR.	Juni Dekl.	Juni ☾ Glieder		Juli AR.	Juli Dekl.	Juli ☾ Glieder		August AR.	August Dekl.	August ☾ Glieder	
		—	in			—	in			—	in			—	in	
	23^h19^m	87° 48′	$0^s.01$	$0''.01$	23^h19^m	87° 48′	$0^s.01$	$0''.01$	23^h19^m	87° 48′	$0^s.01$	$0''.01$	23^h19^m	87° 48′	$0^s.01$	$0''.01$
1	$9^s.42$	$56''.19$	−11	−7	$24^s.47$	$49''.71$	−8	+8	$40^s.99$	$48''.20$	+11	+9	$56^s.00$	$51''.83$	+11	−2
2	9.84	55.92	−15	−3	25.01	49.58	−1	+10	41.53	48.23	+15	+6	56.40	52.02	+5	−4
3	10.26	55.64	−15	+1	25.55	49.46	+7	+10	42.07	48.28	+16	+3	56.79	52.23	−2	−5
4	10.68	55.38	−11	+6	26.09	49.34	+13	+8	42.61	48.32	+14	−1	57.17	52.43	−8	−4
5	11.12	55.11	−5	+9	26.63	49.22	+16	+5	43.14	48.38	+8	−3	57.55	52.64	−12	−2
6	11.56	54.85	+2	+10	27.18	49.11	+15	+1	43.67	48.44	+1	−5	57.92	52.86	−14	+1
7	12.00	54.60	+9	+9	27.73	49.01	+11	−2	44.20	48.51	−5	−4	58.28	53.08	−13	+3
8	12.45	54.35	+14	+6	28.28	48.91	+5	−4	44.72	48.58	−10	−3	58.64	53.30	−10	+5
9	12.91	54.10	+15	+3	28.83	48.81	−1	−5	45.24	48.65	−13	−1	58.98	53.53	−5	+6
10	13.36	53.86	+13	−1	29.38	48.73	−7	−4	45.76	48.73	−14	+1	59.32	53.76	0	+6
11	13.83	53.62	+9	−3	29.94	48.65	−11	−3	46.27	48.82	−11	+3	59.66	53.99	+5	+5
12	14.30	53.39	+3	−5	30.49	48.57	−13	−1	46.78	48.91	−8	+5	59.98	54.23	+10	+3
13	14.77	53.16	−4	−5	31.05	48.50	−13	+1	47.29	49.01	−3	+6	60.30	54.47	+13	+1
14	15.24	52.93	−9	−4	31.60	48.44	−11	+3	47.79	49.11	+2	+6	60.61	54.71	+14	−3
15	15.73	52.71	−12	−3	32.16	48.38	−7	+5	48.29	49.22	+7	+5	60.91	54.96	+12	−6
16	16.21	52.49	−14	0	32.72	48.33	−2	+5	48.79	49.33	+12	+2	61.20	55.21	+7	−9
17	16.70	52.28	−13	+2	33.28	48.28	+4	+5	49.28	49.45	+14	−1	61.48	55.47	0	−10
18	17.19	52.07	−10	+4	33.83	48.24	+9	+3	49.77	49.57	+13	−4	61.76	55.73	−7	−10
19	17.69	51.87	−5	+5	34.39	48.20	+12	+1	50.25	49.70	+10	−8	62.02	55.99	−13	−7
20	18.19	51.67	0	+5	34.94	48.17	+14	−3	50.72	49.83	+4	−10	62.27	56.26	−15	−4
21	18.70	51.48	+6	+5	35.50	48.14	+13	−6	51.19	49.97	−3	−11	62.52	56.52	−15	0
22	19.21	51.30	+11	+2	36.05	48.12	+8	−9	51.66	50.11	−10	−9	62.76	56.79	−11	+4
23	19.72	51.11	+14	−1	36.61	48.11	+1	−10	52.12	50.26	−15	−6	62.98	57.07	−4	+7
24	20.23	50.94	+14	−4	37.16	48.10	−6	−10	52.57	50.42	−16	−2	63.20	57.34	+4	+8
25	20.75	50.77	+11	−7	37.72	48.10	−12	−8	53.02	50.58	−13	+3	63.41	57.62	+11	+7
26	21.27	50.60	+6	−10	38.27	48.10	−15	−4	53.47	50.74	−8	+6	63.61	57.90	+15	+5
27	21.80	50.44	−2	−10	38.82	48.11	−16	+1	53.91	50.91	0	+9	63.80	58.19	+15	+1
28	22.33	50.28	−9	−9	39.37	48.12	−11	+5	54.34	51.09	+7	+9	63.98	58.48	+13	−2
29	22.86	50.13	−14	−5	39.91	48.14	−4	+9	54.76	51.26	+13	+7	64.15	58.77	+7	−4
30	23.39	49.99	−16	−1	40.45	48.17	+4	+10	55.18	51.45	+16	+4	64.31	59.06	0	−5
31	23.93	49.85	−14	+4	40.99	48.20	+11	+9	55.59	51.64	+15	0	64.46	59.35	−6	−4
32	24.47	49.71	−8	+8					56.00	51.83	+11	−2	64.61	59.64	−11	−3

δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 48′ 40″	26.182	−26.163	−87° 48′ 50″	26.215	−26.196
50	26.215	−26.196	60	26.249	−26.230

$\alpha_{1938.0} = 23^h\ 19^m\ 32^s.67$ $\delta_{1938.0} = -87°\ 49'\ 24''.20$

Scheinbare Sternörter 1938

Obere Kulmination Greenwich

Sk) τ Octantis $5^{m}.56$

Tag	September AR.	September Dekl.	September ☾ Glieder		Oktober AR.	Oktober Dekl.	Oktober ☾ Glieder		November AR.	November Dekl.	November ☾ Glieder		Dezember AR.	Dezember Dekl.	Dezember ☾ Glieder	
		—	in			—	in			—	in			—	in	
	$23^{h}20^{m}$	87° 48′	$0^{s}.01$	0″.01	$23^{h}19^{m}$	87° 49′	$0^{s}.01$	0″.01	$23^{h}19^{m}$	87° 49′	$0^{s}.01$	0″.01	$23^{h}19^{m}$	87° 49′	$0^{s}.01$	0″.01
1	$4^{s}.61$	59″.64	−11	−3	63.83	9.16	−9	+5	53.48	17.02	+10	+4	37.44	20.18	+13	−4
2	4.74	59.94	−13	0	63.64	9.46	−4	+7	53.01	17.21	+13	+1	36.86	20.19	+10	−7
3	4.86	60.24	−13	+2	63.43	9.76	+2	+7	52.54	17.39	+14	−2	36.28	20.19	+4	−9
4	4.97	60.54	−11	+4	63.22	10.06	+7	+5	52.06	17.57	+12	−5	35.70	20.19	−2	−10
5	5.07	60.84	−7	+6	62.99	10.35	+12	+3	51.58	17.74	+8	−8	35.12	20.18	−9	−9
6	5.17	61.15	−2	+7	62.76	10.64	+14	0	51.09	17.91	+1	−10	34.54	20.16	−14	−6
7	5.25	61.45	+4	+6	62.52	10.93	+13	−3	50.59	18.07	−5	−9	33.96	20.13	−15	−2
8	5.32	61.76	+9	+5	62.26	11.21	+11	−6	50.09	18.23	−11	−7	33.38	20.10	−13	+3
9	5.38	62.07	+12	+2	62.00	11.50	+5	−8	49.59	18.38	−15	−3	32.80	20.06	−7	+7
10	5.43	62.37	+14	−1	61.73	11.78	−1	−9	49.07	18.52	−14	+1	32.22	20.02	0	+9
11	{ 5.47 5.50	62.68 63.00	+13 +9	−4 −7	61.45	12.05	−8	−8	48.55	18.66	−11	+5	31.64	19.97	+7	+9
12	5.51	63.31	+3	−9	61.15	12.33	−13	−5	48.03	18.80	−4	+8	31.06	19.91	+13	+7
13	5.52	63.62	−4	−9	60.85	12.60	−15	−2	47.50	18.93	+3	+9	30.48	19.84	+16	+4
14	5.52	63.93	−10	−8	60.54	12.87	−13	+2	46.97	19.05	+9	+8	29.91	19.77	+15	0
15	5.50	64.24	−14	−5	60.22	13.13	−9	+6	46.43	19.16	+14	+5	29.33	19.69	+10	−3
16	5.48	64.56	−15	−1	59.89	13.39	−2	+8	45.89	19.27	+15	+2	28.76	19.61	+4	−5
17	5.44	64.87	−12	+3	59.56	13.65	+6	+8	45.35	19.38	+13	−1	28.20	19.52	−3	−5
18	5.39	65.18	−7	+6	59.21	13.90	+11	+6	44.80	19.48	+8	−4	27.63	19.42	−9	−4
19	5.34	65.49	+1	+8	58.85	14.15	+14	+4	44.25	19.57	+1	−5	27.07	19.32	−12	−2
20	5.27	65.80	+8	+7	58.49	14.40	+14	0	43.70	19.66	−5	−5	26.51	19.21	−13	0
21	5.19	66.11	+13	+5	58.11	14.64	+11	−3	43.14	19.74	−10	−4	25.95	19.10	−12	+3
22	5.10	66.42	+15	+2	57.73	14.88	+5	−5	42.58	19.81	−13	−1	25.40	18.98	−9	+5
23	5.00	66.73	+14	−1	57.34	15.12	−1	−6	42.02	19.88	−13	+1	24.85	18.85	−5	+6
24	4.89	67.04	+9	−4	56.94	15.35	−7	−5	41.45	19.94	−12	+3	24.30	18.72	0	+6
25	4.77	67.34	+3	−5	56.53	15.57	−11	−3	40.88	19.99	−8	+5	23.75	18.58	+5	+5
26	4.64	67.65	−3	−5	56.12	15.79	−13	−1	40.31	20.04	−3	+6	23.21	18.43	+10	+3
27	4.50	67.96	−9	−4	55.70	16.01	−14	+2	39.74	20.08	+2	+6	22.68	18.28	+12	0
28	4.35	68.26	−13	−2	55.27	16.22	−11	+4	39.17	20.12	+7	+5	22.14	18.13	+13	−3
29	4.19	68.56	−14	+1	54.83	16.43	−6	+6	38.60	20.15	+11	+2	21.62	17.96	+11	−6
30	4.01	68.86	−13	+3	54.39	16.63	−1	+6	38.02	20.17	+13	−1	21.09	17.80	+7	−9
31	3.83	69.16	−9	+5	53.94	16.83	+5	+6	37.44	20.18	+13	−4	20.57	17.62	0	−10
32					53.48	17.02	+10	+4					20.06	17.44	−6	−10

δ	sec δ	tg δ	δ	sec δ	tg δ	δ	sec δ	tg δ
−87° 48′ 50″	26.215	−26.196	−87° 49′ 0″	26.249	−26.230	−87° 49′ 20″	26.316	−26.297
60	26.249	−26.230	10	26.282	−26.263	30	26.349	−26.330

$\alpha_{1938.0} = 23^{h}\ 19^{m}\ 32^{s}.67$ $\delta_{1938.0} = -87°\ 49'\ 24''.20$

Polnahe Sterne 1938

Koordinaten der scheinbaren Örter für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10^m.56		BD +89° 3 Gr. 9^m.06		BD +89° 37 Gr. 10^m.06		CPD −89° 38 Gr. 9^m.5		Kurzperiod. Nutationsgl.*)	
1938	x	y	x	y	x	y	x	y	in 0.″01	
Jan. 0	−266.″29	+80.″47	−66.″33	+865.″11	−1048.″17	−343.″37	−80.″33	−314.″94	+ 1	+8
1	266.30	80.14	66.34	864.78	1048.18	343.69	80.20	315.27	− 2	+7
2	266.30	79.81	66.34	864.45	1048.18	344.02	80.06	315.60	− 4	+5
3	266.30	79.48	66.34	864.12	1048.18	344.35	79.92	315.93	− 5	+3
4	266.29	79.16	66.33	863.80	1048.17	344.67	79.77	316.25	− 5	−1
5	−266.27	+78.83	−66.31	+863.48	−1048.15	−345.00	−79.61	−316.58	− 4	−4
6	266.25	78.50	66.29	863.15	1048.13	345.33	79.45	316.90	− 2	−7
7	266.22	78.18	66.26	862.83	1048.10	345.65	79.28	317.21	+ 1	−9
8	266.18	77.86	66.22	862.51	1048.06	345.97	79.11	317.53	+ 4	−9
9	266.14	77.54	66.18	862.19	1048.02	346.29	78.93	317.84	+ 8	−7
10	−266.09	+77.22	−66.13	+861.87	−1047.97	−346.61	−78.75	−318.15	+10	−3
11	266.03	76.90	66.07	861.56	1047.91	346.93	78.56	318.46	+10	+1
12	265.97	76.58	66.01	861.24	1047.85	347.25	78.36	318.76	+ 9	+5
13	265.90	76.26	65.94	860.92	1047.78	347.57	78.16	319.07	+ 5	+8
14	265.83	75.95	65.87	860.61	1047.71	347.88	77.96	319.37	0	+9
15	−265.75	+75.63	−65.79	+860.30	−1047.63	−348.20	−77.75	−319.67	− 4	+8
16	265.67	75.32	65.70	859.99	1047.55	348.51	77.53	319.96	− 8	+5
17	265.57	75.02	65.61	859.68	1047.45	348.81	77.31	320.25	−10	+1
18	265.47	74.71	65.51	859.38	1047.35	349.12	77.08	320.54	−10	−4
19	265.37	74.41	65.40	859.08	1047.25	349.42	76.85	320.83	− 8	−7
20	−265.26	+74.11	−65.29	+858.78	−1047.14	−349.72	−76.61	−321.11	− 4	−8
21	265.14	73.81	65.17	858.48	1047.02	350.02	76.36	321.39	− 1	−8
22	265.01	73.52	65.04	858.19	1046.89	350.31	76.11	321.66	+ 2	−6
23	264.88	73.23	64.91	857.90	1046.76	350.60	75.86	321.93	+ 4	−3
24	264.74	72.94	64.78	857.61	1046.62	350.89	75.60	322.20	+ 5	+1
25	−264.60	+72.65	−64.63	+857.32	−1046.48	−351.18	−75.34	−322.47	+ 5	+4
26	264.45	72.37	64.49	857.04	1046.33	351.46	75.08	322.73	+ 3	+7
27	264.30	72.09	64.33	856.76	1046.18	351.74	74.80	322.99	+ 1	+8
28	264.14	71.82	64.17	856.49	1046.02	352.02	74.53	323.24	− 1	+7
29	263.97	71.54	64.01	856.21	1045.85	352.29	74.25	323.48	− 3	+6
30	−263.80	+71.28	−63.84	+855.95	−1045.68	−352.56	−73.96	−323.72	− 5	+4
31	263.62	71.01	63.66	855.68	1045.50	352.83	73.67	323.97	− 6	+1
Febr. 1	263.44	70.75	63.48	855.42	1045.32	353.09	73.37	324.21	− 5	−3
2	263.25	70.49	63.29	855.16	1045.13	353.35	73.07	324.44	− 4	−6
3	263.06	70.24	63.10	854.91	1044.94	353.60	72.77	324.67	− 1	−8
4	−262.86	+69.99	−62.90	+854.66	−1044.74	−353.86	−72.47	−324.90	+ 3	−9
5	262.66	69.74	62.70	854.41	1044.54	354.10	72.16	325.12	+ 6	−7
6	−262.45	+69.50	−62.49	+854.17	−1044.33	−354.34	−71.85	−325.34	+ 9	−5
Mittl. Ort	−239.″72	+78.″97	−39.″70	+863.″60	−1021.″62	−344.″79	− 66.″50	−307.″47		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1938

Koordinaten der scheinbaren Örter für 12h Sternzeit Greenwich

Tag		BD +89° 1 Gr. 10m56		BD +89° 3 Gr. 9m06		BD +89° 37 Gr. 10m06		CPD −89° 38 Gr. 9m5		Kurzperiod. Nutationsgl.*)	
1938		x	y	x	y	x	y	x	y	in 0.01″	
Febr.	6	−262.45″	+69.50″	−62.49″	+854.17″	−1044.33″	−354.34″	−71.85″	−325.34″	+ 9	−5
	7	262.24	69.26	62.28	853.93	1044.12	354.58	71.53	325.55	+10	−1
	8	262.02	69.03	62.06	853.70	1043.90	354.82	71.21	325.76	+ 9	+3
	9	261.79	68.80	61.84	853.47	1043.68	355.04	70.88	325.96	+ 6	+7
	10	261.56	68.58	61.61	853.25	1043.45	355.27	70.55	326.16	+ 2	+8
	11	−261.33	+68.36	−61.38	+853.03	−1043.22	−355.49	−70.22	−326.36	− 2	+8
	12	261.09	68.15	61.14	852.82	1042.98	355.70	69.89	326.55	− 6	+6
	13	260.85	67.94	60.90	852.61	1042.74	355.91	69.55	326.74	− 8	+2
	14	260.61	67.73	60.66	852.40	1042.50	356.12	69.21	326.92	− 9	−2
	15	260.36	67.53	60.41	852.20	1042.25	356.32	68.87	327.10	− 8	−5
	16	−260.11	+67.34	−60.16	+852.01	−1042.00	−356.51	−68.52	−327.27	− 5	−7
	17	259.85	67.15	59.90	851.82	1041.74	356.70	68.18	327.44	− 2	−8
	18	259.59	66.96	59.64	851.64	1041.48	356.89	67.83	327.60	+ 2	−7
	19	259.32	66.78	59.37	851.46	1041.21	357.07	67.47	327.76	+ 4	−4
	20	259.05	66.61	59.10	851.29	1040.94	357.24	67.12	327.91	+ 5	−1
	21	−258.78	+66.44	−58.83	+851.12	−1040.67	−357.41	−66.76	−328.06	+ 5	+3
	22	258.51	66.28	58.55	850.96	1040.39	357.57	66.40	328.20	+ 4	+6
	23	258.23	66.12	58.28	850.80	1040.11	357.73	66.04	328.34	+ 2	+7
	24	257.95	65.97	57.99	850.65	1039.83	357.88	65.67	328.48	0	+8
	25	257.67	65.83	57.71	850.51	1039.55	358.03	65.31	328.61	− 3	+7
	26	−257.38	+65.70	−57.42	+850.37	−1039.26	−358.17	−64.94	−328.73	− 5	+5
	27	257.09	65.56	57.13	850.23	1038.97	358.30	64.57	328.85	− 6	+2
	28	256.80	65.44	56.84	850.11	1038.68	358.43	64.20	328.97	− 6	−2
März	1	256.50	65.31	56.55	849.98	1038.38	358.55	63.82	329.08	− 5	−5
	2	256.20	65.20	56.25	849.87	1038.08	358.67	63.45	329.18	− 2	−7
	3	−255.90	+65.08	−55.95	+849.76	−1037.78	−358.78	−63.07	−329.28	+ 1	−9
	4	255.60	64.97	55.65	849.65	1037.48	358.89	62.69	329.38	+ 4	−8
	5	255.30	64.87	55.35	849.55	1037.18	358.99	62.31	329.47	+ 7	−6
	6	254.99	64.78	55.04	849.46	1036.87	359.08	61.93	329.55	+ 9	−2
	7	254.68	64.70	54.73	849.38	1036.56	359.16	61.55	329.63	+ 9	+2
	8	−254.37	+64.62	−54.42	+849.30	−1036.25	−359.24	−61.17	−329.71	+ 7	+5
	9	254.06	64.54	54.11	849.22	1035.94	359.32	60.79	329.78	+ 4	+8
	10	253.75	64.48	53.80	849.16	1035.63	359.38	60.40	329.84	0	+8
	11	253.44	64.42	53.49	849.10	1035.32	359.44	60.01	329.90	− 5	+7
	12	253.12	64.37	53.17	849.05	1035.00	359.49	59.63	329.96	− 7	+4
	13	−252.80	+64.32	−52.85	+849.00	−1034.68	−359.54	−59.24	−330.01	− 9	0
	14	252.49	64.28	52.53	848.96	1034.36	359.58	58.85	330.06	− 8	−4
	15	−252.18	+64.24	−52.22	+848.92	−1034.04	−359.62	−58.47	−330.10	− 6	−7
Mittl. Ort		−239.72″	+78.97″	−39.70″	+863.60″	−1021.62″	−344.79″	−66.50″	−307.47″		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1938

Koordinaten der scheinbaren Örter für 12ʰ Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10ᵐ.56		BD +89° 3 Gr. 9ᵐ.06		BD +89° 37 Gr. 10ᵐ.06		CPD −89° 38 Gr. 9ᵐ.5		Kurzperiod. Nutationsgl.*)	
1938	x	y	x	y	x	y	x	y	in 0″.01	
März 15	−252″.18	+64″.24	−52″.22	+848″.92	−1034″.04	−359″.62	−58″.47	−330″.10	−6	−7
16	251.86	64.21	51.90	848.89	1033.73	359.65	58.08	330.14	−3	−8
17	251.54	64.19	51.58	848.87	1033.41	359.68	57.69	330.17	0	−7
18	251.22	64.17	51.26	848.85	1033.09	359.69	57.30	330.19	+3	−5
19	250.89	64.16	50.95	848.84	1032.77	359.70	56.92	330.22	+5	−2
20	−250.57	+64.16	−50.63	+848.84	−1032.45	−359.71	−56.53	−330.23	+6	+1
21	250.25	64.16	50.31	848.84	1032.13	359.71	56.14	330.24	+5	+4
22	249.93	64.17	49.99	848.85	1031.81	359.70	55.75	330.25	+3	+7
23	249.61	64.19	49.67	848.87	1031.49	359.68	55.36	330.25	+1	+8
23	249.29	64.21	49.35	848.89	1031.17	359.66	54.97	330.25	−2	+7
24	−248.98	+64.23	−49.03	+848.91	−1030.85	−359.64	−54.58	−330.24	−4	+6
25	248.67	64.27	48.71	848.95	1030.53	359.60	54.20	330.23	−5	+3
26	248.36	64.31	48.40	848.99	1030.22	359.56	53.81	330.21	−6	0
27	248.04	64.35	48.08	849.03	1029.90	359.52	53.43	330.18	−5	−4
28	247.73	64.40	47.77	849.08	1029.59	359.47	53.04	330.16	−3	−7
29	−247.41	+64.46	−47.45	+849.14	−1029.27	−359.41	−52.66	−330.12	0	−8
30	247.10	64.53	47.14	849.21	1028.96	359.34	52.28	330.08	+3	−8
31	246.78	64.60	46.83	849.28	1028.65	359.27	51.90	330.04	+6	−7
April 1	246.46	64.68	46.52	849.36	1028.34	359.19	51.52	329.99	+8	−4
2	246.15	64.76	46.21	849.44	1028.03	359.11	51.14	329.94	+9	0
3	−245.85	+64.85	−45.90	+849.53	−1027.73	−359.02	−50.76	−329.88	+7	+4
4	245.54	64.95	45.60	849.62	1027.42	358.93	50.38	329.82	+4	+7
5	245.24	65.05	45.30	849.72	1027.12	358.83	50.01	329.76	0	+8
6	244.94	65.15	45.00	849.83	1026.82	358.72	49.63	329.68	−4	+8
7	244.64	65.26	44.70	849.94	1026.52	358.61	49.26	329.61	−7	+5
8	−244.35	+65.38	−44.41	+850.05	−1026.23	−358.50	−48.89	−329.53	−9	+1
9	244.05	65.50	44.11	850.18	1025.93	358.37	48.52	329.44	−9	−2
10	243.76	65.63	43.83	850.31	1025.64	358.24	48.15	329.35	−7	−6
11	243.47	65.77	43.54	850.44	1025.35	358.11	47.79	329.25	−4	−8
12	243.18	65.91	43.25	850.58	1025.06	357.97	47.42	329.15	−1	−8
13	−242.90	+66.06	−42.97	+850.73	−1024.78	−357.83	−47.06	−329.05	+3	−6
14	242.62	66.21	42.69	850.88	1024.50	357.68	46.70	328.94	+5	−3
15	242.34	66.36	42.41	851.03	1024.22	357.53	46.35	328.83	+6	0
16	242.07	66.52	42.14	851.19	1023.95	357.37	45.99	328.71	+5	+3
17	241.80	66.69	41.87	851.36	1023.68	357.20	45.64	328.59	+4	+6
18	−241.54	+66.86	−41.61	+851.53	−1023.41	−357.03	−45.29	−328.46	+2	+7
19	241.27	67.03	41.34	851.70	1023.15	356.85	44.94	328.33	0	+8
20	−241.02	+67.21	−41.09	+851.88	−1022.89	−356.67	−44.60	−328.20	−3	+7
Mittl. Ort	−239″.72	+78″.97	−39″.70	+863″.60	−1021″.62	−344″.79	−66″.50	−307″.47		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1938

Koordinaten der scheinbaren Örter für 12h Sternzeit Greenwich

Tag		BD +89° 1 Gr. 10m.56		BD +89° 3 Gr. 9m.06		BD +89° 37 Gr. 10m.06		CPD −89° 38 Gr. 9m.5		Kurzperiod. Nutationsgl.*)	
1938		x	y	x	y	x	y	x	y	in 0.01″	
April	20	−241.02″	+67.21″	−41.09″	+851.88″	−1022.89″	−356.67″	−44.60″	−328.20″	− 3	+7
	21	240.76	67.40	40.83	852.07	1022.63	356.48	44.26	328.06	− 4	+4
	22	240.51	67.59	40.58	852.26	1022.38	356.29	43.92	327.92	− 5	+2
	23	240.26	67.78	40.33	852.45	1022.13	356.10	43.58	327.77	− 5	−2
	24	240.01	67.98	40.08	852.65	1021.88	355.90	43.25	327.62	− 4	−5
	25	−239.77	+68.18	−39.84	+852.85	−1021.64	−355.69	−42.91	−327.47	− 1	−8
	26	239.54	68.39	39.61	853.06	1021.40	355.48	42.59	327.31	+ 2	−9
	27	239.30	68.60	39.37	853.27	1021.17	355.27	42.26	327.15	+ 5	−8
	28	239.08	68.82	39.15	853.49	1020.94	355.05	41.94	326.98	+ 8	−5
	29	238.85	69.05	38.92	853.72	1020.72	354.82	41.62	326.81	+ 9	−2
	30	−238.63	+69.28	−38.70	+853.95	−1020.50	−354.59	−41.31	−326.63	+ 9	+2
Mai	1	238.42	69.51	38.49	854.18	1020.28	354.36	41.00	326.45	+ 6	+6
	2	238.21	69.74	38.28	854.41	1020.07	354.12	40.69	326.27	+ 2	+8
	3	238.00	69.98	38.07	854.65	1019.86	353.89	40.38	326.08	− 2	+8
	4	237.80	70.22	37.87	854.89	1019.66	353.64	40.08	325.90	− 6	+6
	5	−237.60	+70.46	−37.67	+855.14	−1019.46	−353.40	−39.78	−325.70	− 9	+3
	6	237.41	70.71	37.48	855.39	1019.27	353.15	39.49	325.50	−10	−1
	7	237.22	70.96	37.29	855.64	1019.08	352.90	39.20	325.30	− 8	−5
	8	237.04	71.22	37.11	855.90	1018.90	352.64	38.91	325.10	− 6	−7
	9	236.86	71.48	36.94	856.16	1018.72	352.38	38.63	324.88	− 2	−8
	10	−236.69	+71.75	−36.77	+856.43	−1018.55	−352.12	−38.35	−324.67	+ 1	−6
	11	236.52	72.02	36.60	856.70	1018.38	351.85	38.08	324.45	+ 4	−4
	12	236.35	72.29	36.44	856.97	1018.21	351.58	37.81	324.23	+ 5	−1
	13	236.19	72.56	36.28	857.24	1018.05	351.31	37.54	324.01	+ 5	+2
	14	236.04	72.84	36.12	857.52	1017.90	351.03	37.28	323.78	+ 4	+5
	15	−235.89	+73.12	−35.98	+857.80	−1017.75	−350.75	−37.02	−323.56	+ 3	+7
	16	235.75	73.40	35.84	858.08	1017.61	350.47	36.77	323.32	0	+8
	17	235.62	73.69	35.70	858.37	1017.48	350.18	36.52	323.09	− 2	+7
	18	235.49	73.97	35.57	858.65	1017.35	349.90	36.27	322.85	− 4	+5
	19	235.36	74.26	35.45	858.94	1017.22	349.61	36.03	322.61	− 5	+3
	20	−235.24	+74.55	−35.33	+859.23	−1017.10	−349.32	−35.79	−322.36	− 5	0
	21	235.13	74.85	35.22	859.53	1016.99	349.02	35.56	322.11	− 4	−4
	22	235.02	75.15	35.11	859.83	1016.88	348.72	35.33	321.86	− 2	−7
	23	234.91	75.44	35.00	860.12	1016.77	348.43	35.11	321.61	+ 1	−9
	24	234.82	75.75	34.91	860.42	1016.67	348.13	34.89	321.35	+ 5	−8
	25	−234.72	+76.05	−34.81	+860.72	−1016.58	−347.83	−34.67	−321.09	+ 8	−7
	26	234.64	76.35	34.73	861.03	1016.49	347.52	34.46	320.83	+10	−4
	27	−234.56	+76.66	−34.65	+861.33	−1016.41	−347.22	−34.26	−320.57	+10	+1
Mittl. Ort		−239.72″	+78.97″	−39.70″	+863.60″	−1021.62″	−344.79″	−66.50″	−307.47″		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1938

Koordinaten der scheinbaren Örter für 12^h Sternzeit Greenwich

Tag		BD +89° 1 Gr. $10^m.56$		BD +89° 3 Gr. $9^m.06$		BD +89° 37 Gr. $10^m.06$		CPD −89° 38 Gr. $9^m.5$		Kurzperiod. Nutationsgl.*)	
1938		x	y	x	y	x	y	x	y	in 0.″01	
Mai	27	−234.″56	+76.″66	−34.″65	+861.″33	−1016.″41	−347.″22	−34.″26	−320.″57	+10	+1
	28	234.48	76.97	34.57	861.64	1016.33	346.91	34.06	320.30	+ 8	+5
	29	234.41	77.27	34.50	861.95	1016.26	346.60	33.86	320.04	+ 4	+8
	30	234.35	77.59	34.44	862.26	1016.20	346.29	33.67	319.76	0	+9
	31	234.29	77.90	34.38	862.57	1016.14	345.98	33.49	319.49	− 5	+7
Juni	1	−234.24	+78.21	−34.33	+862.88	−1016.09	−345.67	−33.31	−319.21	− 8	+5
	2	234.19	78.53	34.28	863.20	1016.04	345.35	33.13	318.94	−10	+1
	3	234.15	78.84	34.24	863.51	1015.99	345.04	32.96	318.65	−10	−4
	4	234.12	79.15	34.21	863.82	1015.96	344.73	32.80	318.37	− 7	−6
	5	234.09	79.47	34.18	864.14	1015.93	344.41	32.64	318.09	− 4	−8
	6	−234.06	+79.79	−34.15	+864.46	−1015.90	−344.09	−32.48	−317.80	0	−7
	7	234.05	80.11	34.14	864.78	1015.88	343.77	32.34	317.51	+ 3	−5
	8	234.03	80.43	34.12	865.10	1015.87	343.45	32.19	317.23	+ 4	−2
	9	234.03	80.75	34.12	865.42	1015.86	343.13	32.06	316.93	+ 5	+1
	10	234.03	81.07	34.12	865.74	1015.86	342.81	31.93	316.64	+ 4	+4
	11	−234.03	+81.39	−34.13	+866.06	−1015.86	−342.49	−31.80	−316.35	+ 3	+6
	12	234.04	81.71	34.14	866.38	1015.87	342.17	31.68	316.05	+ 1	+7
	13	234.06	82.03	34.15	866.70	1015.89	341.85	31.56	315.75	− 1	+7
	14	234.08	82.35	34.18	867.02	1015.91	341.53	31.45	315.46	− 3	+6
	15	234.11	82.67	34.21	867.34	1015.94	341.21	31.35	315.16	− 5	+4
	16	−234.15	+82.99	−34.24	+867.66	−1015.97	−340.89	−31.25	−314.86	− 5	+1
	17	234.19	83.31	34.28	867.98	1016.01	340.56	31.15	314.56	− 5	−3
	18	234.23	83.64	34.33	868.31	1016.05	340.24	31.07	314.26	− 3	−5
	19	234.28	83.96	34.38	868.63	1016.10	339.92	30.99	313.95	0	−8
	20	234.34	84.28	34.44	868.95	1016.16	339.60	30.91	313.65	+ 3	−9
	21	−234.40	+84.60	−34.50	+869.27	−1016.22	−339.28	−30.84	−313.35	+ 7	−8
	22	234.47	84.92	34.57	869.59	1016.29	338.96	30.77	313.04	+ 9	−5
	23	234.54	85.24	34.64	869.91	1016.36	338.64	30.71	312.74	+11	−1
	24	234.62	85.56	34.72	870.22	1016.44	338.32	30.65	312.43	+10	+3
	25	234.70	85.87	34.81	870.54	1016.52	338.01	30.60	312.13	+ 7	+6
	26	−234.79	+86.19	−34.90	+870.85	−1016.61	−337.69	−30.56	−311.82	+ 3	+8
	27	234.89	86.50	34.99	871.17	1016.71	337.38	30.52	311.52	− 2	+8
	28	234.99	86.82	35.10	871.48	1016.81	337.06	30.49	311.21	− 6	+6
	29	235.10	87.13	35.21	871.79	1016.92	336.75	30.46	310.91	− 9	+2
	30	235.21	87.44	35.32	872.10	1017.03	336.44	30.44	310.60	−10	−2
Juli	1	−235.32	+87.75	−35.44	+872.41	−1017.14	−336.13	−30.42	−310.29	− 9	−5
	2	235.44	88.06	35.56	872.72	1017.26	335.82	30.41	309.98	− 6	−8
	3	−235.57	+88.37	−35.69	+873.03	−1017.39	−335.51	−30.41	−309.68	− 2	−8
Mittl. Ort		−239.″72	+78.″97	−39.″70	+863.″60	−1021.″62	−344.″79	−66.″50	−307.″47		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1938

Koordinaten der scheinbaren Örter für 12^{h} Sternzeit Greenwich

Tag		BD +89° 1 Gr. 10^{m}.56		BD +89° 3 Gr. 9^{m}.06		BD +89° 37 Gr. 10^{m}.06		CPD −89° 38 Gr. 9^{m}.5		Kurzperiod. Nutationsgl.*)	
1938		x	y	x	y	x	y	x	y	in 0.″01	
Juli	3	−235.″57	+88.″37	−35.″69	+873.″03	−1017.″39	−335.″51	−30.″41	−309.″68	− 2	−8
	4	235.70	88.67	35.83	873.33	1017.52	335.21	30.41	309.37	+ 1	−7
	5	235.84	88.98	35.97	873.63	1017.66	334.91	30.42	309.07	+ 4	−4
	6	235.99	89.28	36.11	873.93	1017.80	334.61	30.44	308.76	+ 5	0
	7	236.14	89.58	36.26	874.23	1017.95	334.31	30.46	308.46	+ 4	+3
	8	−236.29	+89.88	−36.42	+874.53	−1018.10	−334.01	−30.48	−308.16	+ 3	+6
	9	236.45	90.18	36.58	874.83	1018.26	333.71	30.51	307.86	+ 1	+8
	10	236.62	90.47	36.74	875.12	1018.43	333.42	30.55	307.56	− 1	+7
	11	236.79	90.76	36.91	875.41	1018.60	333.13	30.59	307.26	− 3	+6
	12	236.96	91.06	37.09	875.71	1018.77	332.84	30.64	306.96	− 5	+4
	13	−237.14	+91.34	−37.27	+875.99	−1018.95	−332.55	−30.69	−306.66	− 6	+2
	14	237.33	91.63	37.45	876.28	1019.13	332.26	30.75	306.37	− 5	−1
	15	237.52	91.91	37.64	876.56	1019.32	331.98	30.82	306.07	− 4	−4
	16	237.71	92.19	37.84	876.84	1019.51	331.70	30.89	305.78	− 2	−7
	17	237.91	92.47	38.04	877.12	1019.71	331.42	30.96	305.49	+ 1	−8
	18	−238.12	+92.75	−38.24	+877.40	−1019.92	−331.15	−31.05	−305.20	+ 5	−8
	19	238.33	93.02	38.45	877.67	1020.13	330.88	31.14	304.91	+ 8	−6
	20	238.54	93.29	38.67	877.94	1020.34	330.61	31.23	304.63	+10	−3
	21	238.76	93.56	38.89	878.21	1020.56	330.34	31.33	304.34	+10	+1
	22	238.98	93.83	39.11	878.48	1020.78	330.07	31.43	304.06	+ 9	+5
	23	−239.21	+94.09	−39.34	+878.74	−1021.01	−329.81	−31.54	−303.78	+ 5	+7
	24	239.44	94.35	39.57	879.00	1021.24	329.55	31.65	303.51	+ 1	+8
	25	239.68	94.61	39.81	879.26	1021.48	329.29	31.77	303.23	− 4	+7
	26	239.92	94.86	40.05	879.51	1021.72	329.04	31.90	302.96	− 7	+4
	27	240.16	95.11	40.29	879.76	1021.96	328.79	32.03	302.69	− 9	0
	28	−240.41	+95.36	−40.54	+880.01	−1022.21	−328.54	−32.17	−302.42	− 9	−4
	29	240.67	95.60	40.79	880.25	1022.46	328.30	32.31	302.16	− 7	−7
	30	240.93	95.84	41.05	880.49	1022.72	328.06	32.46	301.90	− 4	−8
	31	241.19	96.08	41.31	880.73	1022.98	327.82	32.61	301.64	0	−7
Aug.	1	241.45	96.31	41.57	880.97	1023.24	327.59	32.77	301.38	+ 3	−5
	2	−241.72	+96.54	−41.84	+881.20	−1023.51	−327.35	−32.93	−301.13	+ 4	−2
	3	241.99	96.77	42.11	881.43	1023.78	327.13	33.09	300.88	+ 5	+2
	4	242.27	96.99	42.39	881.65	1024.06	326.90	33.26	300.63	+ 4	+5
	5	242.55	97.21	42.67	881.87	1024.34	326.68	33.44	300.39	+ 2	+7
	6	242.83	97.43	42.96	882.09	1024.62	326.46	33.62	300.15	− 1	+8
	7	−243.12	+97.64	−43.25	+882.30	−1024.91	−326.25	−33.80	−299.91	− 3	+7
	8	243.41	97.85	43.54	882.51	1025.20	326.04	33.99	299.68	− 5	+5
	9	−243.71	+98.06	−43.84	+882.71	−1025.50	−325.83	−34.19	−299.45	− 6	+3
Mittl. Ort		−239.″72	+78.″97	−39.″70	+863.″60	−1021.″62	−344.″79	−66.″50	−307.″47		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1938

Koordinaten der scheinbaren Örter für 12ʰ Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10ᵐ56		BD +89° 3 Gr. 9ᵐ06		BD +89° 37 Gr. 10ᵐ06		CPD −89° 38 Gr. 9ᵐ5		Kurzperiod. Nutationsgl.*)	
1938	*x*	*y*	*x*	*y*	*x*	*y*	*x*	*y*	in 0.″01	
Aug. 9	−243.″71	+ 98.″06	−43.″84	+882.″71	−1025.″50	−325.″83	−34.″19	−299.″45	− 6	+3
10	244.01	98.26	44.14	882.91	1025.80	325.63	34.39	299.22	− 6	0
11	244.31	98.47	44.44	883.11	1026.10	325.43	34.59	299.00	− 5	−3
12	244.61	98.67	44.75	883.31	1026.40	325.23	34.80	298.78	− 3	−6
13	244.92	98.86	45.05	883.50	1026.71	325.04	35.01	298.57	0	−8
14	−245.23	+ 99.04	−45.37	+883.69	−1027.02	−324.85	−35.23	−298.36	+ 3	−8
15	245.55	99.23	45.68	883.87	1027.33	324.67	35.45	298.15	+ 6	−7
16	245.86	99.41	46.00	884.05	1027.65	324.49	35.68	297.95	+ 9	−4
17	246.19	99.58	46.32	884.22	1027.97	324.32	35.91	297.75	+10	0
18	246.51	99.75	46.65	884.39	1028.29	324.15	36.14	297.56	+ 9	+4
19	−246.84	+ 99.92	−46.98	+884.56	−1028.62	−323.98	−36.38	−297.37	+ 7	+6
20	247.17	100.08	47.31	884.72	1028.95	323.82	36.62	297.18	+ 3	+8
21	247.50	100.24	47.64	884.88	1029.28	323.66	36.87	297.00	− 1	+8
22	247.83	100.40	47.97	885.04	1029.61	323.50	37.12	296.83	− 5	+5
23	248.17	100.55	48.31	885.19	1029.95	323.35	37.37	296.66	− 8	+2
24	−248.51	+100.70	−48.65	+885.34	−1030.29	−323.20	−37.63	−296.49	− 8	−2
25	248.85	100.84	48.99	885.48	1030.63	323.06	37.89	296.33	− 7	−6
26	249.20	100.98	49.34	885.62	1030.98	322.92	38.15	296.18	− 4	−8
27	249.55	101.11	49.69	885.75	1031.33	322.79	38.42	296.03	− 1	−8
28	249.90	101.24	50.04	885.88	1031.68	322.66	38.69	295.88	+ 2	−6
29	−250.25	+101.37	−50.39	+886.01	−1032.03	−322.53	−38.96	−295.74	+ 4	−3
30	250.60	101.49	50.74	886.13	1032.38	322.41	39.23	295.60	+ 5	+1
31	250.96	101.61	51.10	886.25	1032.74	322.29	39.51	295.47	+ 4	+4
Sept. 1	251.32	101.73	51.46	886.36	1033.09	322.17	39.79	295.35	+ 3	+6
2	251.68	101.84	51.82	886.47	1033.45	322.06	40.08	295.23	0	+8
3	−252.04	+101.94	−52.18	+886.57	−1033.81	−321.96	−40.36	−295.11	− 2	+8
4	252.40	102.04	52.54	886.67	1034.17	321.86	40.65	295.00	− 4	+6
5	252.76	102.13	52.90	886.76	1034.54	321.77	40.94	294.90	− 6	+4
6	253.13	102.22	53.27	886.85	1034.90	321.68	41.23	294.80	− 6	+1
7	253.50	102.30	53.64	886.94	1035.27	321.60	41.53	294.71	− 6	−2
8	−253.87	+102.38	−54.01	+887.02	−1035.64	−321.52	−41.83	−294.63	− 4	−5
9	254.24	102.46	54.38	887.10	1036.01	321.44	42.13	294.55	− 2	−7
10	254.61	102.53	54.75	887.17	1036.38	321.37	42.43	294.47	+ 2	−8
11	254.99	102.60	55.13	887.24	1036.76	321.30	42.73	294.40	+ 5	−7
12	255.36	102.66	55.50	887.30	1037.13	321.24	43.04	294.34	+ 7	−5
13	−255.74	+102.72	−55.88	+887.36	−1037.51	−321.19	−43.34	−294.28	+ 9	−2
14	256.11	102.77	56.25	887.41	1037.88	321.13	43.65	294.23	+ 9	+2
15	−256.49	+102.82	−56.63	+887.46	−1038.26	−321.09	−43.96	−294.18	+ 7	+5
Mittl. Ort	−239.″72	+78.″97	−39.″70	+863.″60	−1021.″62	−344.″79	−66.″50	−307.″47		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1938

Koordinaten der scheinbaren Örter für 12^{h} Sternzeit Greenwich

Tag	BD +89° 1 Gr. 10^{m}.56		BD +89° 3 Gr. 9^{m}.06		BD +89° 37 Gr. 10^{m}.06		CPD −89° 38 Gr. 9^{m}.5		Kurzperiod. Nutationsgl.*)	
1938	x	y	x	y	x	y	x	y	in 0.″01	
Sept. 15	−256.″49	+102.″82	−56.″63	+887.″46	−1038.″26	−321.″09	−43.″96	−294.″18	+7	+5
16	256.87	102.86	57.01	887.50	1038.64	321.05	44.27	294.14	+4	+7
17	257.25	102.90	57.39	887.54	1039.02	321.01	44.58	294.11	0	+8
18	257.63	102.93	57.77	887.57	1039.40	320.98	44.90	294.08	−4	+6
19	258.01	102.96	58.15	887.60	1039.78	320.95	45.21	294.05	−7	+3
20	−258.40	+102.98	−58.53	+887.62	−1040.16	−320.93	−45.52	−294.04	−8	−1
21	258.78	103.00	58.92	887.64	1040.54	320.91	45.83	294.02	−7	−4
22	259.16	103.02	59.30	887.66	1040.92	320.89	46.15	294.02	−5	−7
23	259.54	103.03	59.68	887.67	1041.31	320.88	46.46	294.02	−2	−8
24	259.93	103.03	60.06	887.67	1041.69	320.88	46.78	294.03	+1	−7
25	−260.31	+103.03	−60.45	+887.67	−1042.07	−320.88	−47.09	−294.04	+4	−4
26	260.69	103.03	60.83	887.67	1042.45	320.88	47.41	294.07	+5	−1
27	261.07	103.02	61.22	887.66	1042.84	320.89	47.73	294.09	+5	+2
28	261.45	103.00	61.60	887.64	1043.22	320.91	48.05	294.13	+4	+6
29	261.83	102.98	61.98	887.62	1043.60	320.93	48.37	294.17	+2	+7
30	−262.22	+102.96	−62.37	+887.60	−1043.99	−320.95	−48.68	−294.21	−1	+8
Okt. 1	262.60	102.93	62.75	887.57	1044.37	320.98	48.99	294.26	−3	+7
2	262.98	102.90	63.13	887.54	1044.75	321.01	49.31	294.31	−5	+5
3	263.36	102.86	63.51	887.50	1045.13	321.05	49.62	294.38	−6	+2
4	263.74	102.82	63.89	887.46	1045.51	321.09	49.93	294.45	−6	−1
5	−264.11	+102.77	−64.27	+887.41	−1045.88	−321.14	−50.24	−294.52	−5	−4
6	264.49	102.71	64.65	887.35	1046.26	321.20	50.55	294.60	−3	−7
7	264.87	102.65	65.02	887.29	1046.64	321.26	50.85	294.69	0	−8
8	265.24	102.59	65.40	887.23	1047.01	321.32	51.16	294.79	+4	−8
9	265.62	102.52	65.78	887.16	1047.39	321.39	51.47	294.89	+6	−6
10	−266.00	+102.45	−66.15	+887.09	−1047.76	−321.46	−51.77	−294.99	+9	−3
11	266.37	102.38	66.53	887.02	1048.14	321.53	52.07	295.11	+9	+1
12	266.74	102.30	66.90	886.94	1048.51	321.61	52.37	295.22	+8	+4
13	267.11	102.21	67.27	886.85	1048.88	321.70	52.67	295.35	+5	+7
14	267.48	102.12	67.64	886.76	1049.25	321.79	52.96	295.48	+1	+8
15	−267.85	+102.02	−68.00	+886.66	−1049.61	−321.89	−53.25	−295.61	−3	+7
16	268.22	101.92	68.37	886.56	1049.98	321.99	53.54	295.75	−6	+5
17	268.58	101.81	68.73	886.45	1050.34	322.10	53.83	295.90	−8	+1
18	268.94	101.70	69.09	886.34	1050.70	322.21	54.11	296.05	−8	−3
19	269.31	101.59	69.45	886.23	1051.06	322.32	54.39	296.21	−6	−6
20	−269.67	+101.47	−69.81	+886.11	−1051.42	−322.44	−54.67	−296.37	−3	−7
21	270.03	101.34	70.17	885.99	1051.78	322.57	54.95	296.53	0	−7
22	−270.39	+101.21	−70.53	+885.86	−1052.14	−322.70	−55.22	−296.71	+3	−6
Mittl. Ort	−239.″72	+78.″97	−39.″70	+863.″60	−1021.″62	−344.″79	−66.″50	−307.″47		

* Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1938

Koordinaten der scheinbaren Örter für 12^h Sternzeit Greenwich

Tag	BD +89° 1 Gr. $10^m.56$		BD +89° 3 Gr. $9^m.06$		BD +89° 37 Gr. $10^m.06$		CPD −89° 38 Gr. $9^m.5$		Kurzperiod. Nutationsgl.*)	
1938	x	y	x	y	x	y	x	y	in 0.″01	
Okt. 22	−270.″39	+101.″21	−70.″53	+885.″86	−1052.″14	−322.″70	−55.″22	−296.″71	+3	−6
23	270.74	101.08	70.88	885.72	1052.49	322.83	55.49	296.89	+5	−3
24	271.09	100.94	71.23	885.59	1052.84	322.97	55.75	297.07	+6	+1
25	271.43	100.79	71.58	885.44	1053.19	323.12	56.02	297.26	+5	+4
26	271.78	100.64	71.92	885.29	1053.53	323.27	56.27	297.46	+3	+7
27	−272.11	+100.49	−72.26	+885.14	−1053.87	−323.42	−56.53	−297.66	0	+8
28	272.45	100.33	72.60	884.98	1054.21	323.58	56.78	297.87	−2	+8
29	272.80	100.17	72.94	884.82	1054.55	323.74	57.03	298.08	−4	+6
30	273.13	100.00	73.28	884.65	1054.89	323.91	57.27	298.30	−6	+4
31	273.46	99.83	73.61	884.48	1055.22	324.08	57.51	298.52	−6	0
Nov. 1	−273.78	+ 99.65	−73.94	+884.31	−1055.55	−324.26	−57.74	−298.74	−5	−3
2	274.11	99.47	74.26	884.13	1055.87	324.44	57.97	298.97	−4	−6
3	274.43	99.29	74.59	883.95	1056.20	324.62	58.20	299.21	−1	−8
4	274.75	99.10	74.90	883.76	1056.51	324.81	58.42	299.45	+3	−8
5	275.06	98.91	75.22	883.57	1056.83	325.00	58.64	299.69	+6	−7
6	−275.37	+ 98.71	−75.53	+883.37	−1057.14	−325.20	−58.85	−299.94	+8	−5
7	275.68	98.51	75.84	883.17	1057.45	325.40	59.06	300.20	+9	−1
8	275.99	98.31	76.15	882.97	1057.76	325.60	59.27	300.46	+9	+3
9	276.29	98.10	76.45	882.76	1058.06	325.81	59.47	300.72	+6	+6
10	276.59	97.89	76.75	882.55	1058.36	326.03	59.66	300.98	+2	+8
11	−276.88	+ 97.67	−77.04	+882.33	−1058.65	−326.24	−59.85	−301.25	−2	+8
12	277.17	97.45	77.33	882.11	1058.94	326.47	60.03	301.52	−6	+6
13	277.45	97.22	77.61	881.88	1059.22	326.69	60.21	301.80	−8	+2
14	277.73	96.99	77.89	881.65	1059.50	326.92	60.38	302.08	−9	−2
15	278.01	96.76	78.17	881.42	1059.78	327.16	60.55	302.37	−7	−5
16	−278.28	+ 96.52	−78.44	+881.18	−1060.05	−327.40	−60.71	−302.66	−5	−7
17	278.55	96.28	78.71	880.94	1060.32	327.64	60.86	302.95	−1	−7
18	278.82	96.04	78.98	880.70	1060.59	327.89	61.01	303.24	+2	−6
19	279.08	95.79	79.24	880.45	1060.85	328.13	61.15	303.54	+4	−4
20	279.33	95.54	79.49	880.20	1061.10	328.39	61.29	303.84	+5	0
21	−279.58	+ 95.28	−79.74	+879.94	−1061.35	−328.64	−61.42	−304.15	+5	+3
22	279.83	95.02	79.99	879.68	1061.60	328.90	61.55	304.45	+4	+6
23	280.07	94.76	80.23	879.42	1061.84	329.16	61.67	304.76	+1	+7
24	280.30	94.50	80.46	879.16	1062.07	329.43	61.78	305.07	−1	+7
25	280.53	94.23	80.69	878.89	1062.30	329.70	61.89	305.38	−3	+7
26	−280.76	+ 93.96	−80.92	+878.62	−1062.53	−329.97	−61.99	−305.70	−5	+5
27	280.98	93.68	81.14	878.34	1062.75	330.25	62.09	306.02	−6	+2
28	−281.20	+ 93.40	−81.36	+878.06	−1062.97	−330.53	−62.18	−306.34	−6	−1
Mittl. Ort	−239.″72	+78.″97	−39.″70	+863.″60	−1021.″62	−344.″79	−66.″50	−307.″47		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Polnahe Sterne 1938

Koordinaten der scheinbaren Örter für 12ʰ Sternzeit Greenwich

Tag		BD +89° 1 Gr. 10ᵐ.56		BD +89° 3 Gr. 9ᵐ06		BD +89° 37 Gr. 10ᵐ.06		CPD −89° 38 Gr. 9ᵐ.5		Kurzperiod. Nutationsgl.*)	
1938		x	y	x	y	x	y	x	y	in 0.″01	
Nov.	28	−281.″20	+93.″40	−81.″36	+878.″06	−1062.″97	−330.″53	−62.″18	−306.″34	− 6	−1
	29	281.41	93.12	81.57	877.78	1063.18	330.81	62.27	306.66	− 4	−4
	30	281.62	92.84	81.78	877.50	1063.39	331.10	62.34	306.99	− 2	−7
Dez.	1	281.82	92.55	81.98	877.21	1063.59	331.39	62.41	307.31	+ 1	−8
	2	282.01	92.26	82.17	876.92	1063.78	331.68	62.48	307.64	+ 5	−8
	3	−282.20	+91.97	−82.36	+876.63	−1063.97	−331.97	−62.54	−307.97	+ 8	−6
	4	282.39	91.67	82.55	876.34	1064.16	332.27	62.59	308.30	+10	−3
	5	282.56	91.37	82.72	876.04	1064.33	332.56	62.63	308.64	+10	+1
	6	282.73	91.07	82.89	875.74	1064.50	332.87	62.67	308.97	+ 8	+5
	7	282.90	90.77	83.06	875.44	1064.67	333.17	62.70	309.31	+ 5	+7
	8	−283.06	+90.47	−83.23	+875.14	−1064.83	−333.48	−62.73	−309.65	0	+8
	9	283.22	90.16	83.38	874.83	1064.99	333.78	62.75	309.98	− 4	+7
	10	283.37	89.85	83.54	874.52	1065.14	334.09	62.76	310.32	− 7	+4
	11	283.52	89.54	83.68	874.21	1065.29	334.40	62.77	310.66	− 9	0
	12	283.65	89.23	83.82	873.90	1065.42	334.72	62.77	311.00	− 9	−4
	13	−283.78	+88.91	−83.95	+873.59	−1065.55	−335.03	−62.76	−311.34	− 7	−7
	14	283.91	88.60	84.08	873.28	1065.68	335.35	62.75	311.68	− 3	−8
	15	284.03	88.28	84.19	872.96	1065.80	335.67	62.73	312.02	0	−7
	16	284.14	87.96	84.31	872.64	1065.90	335.99	62.70	312.37	+ 3	−5
	17	284.24	87.64	84.41	872.32	1066.01	336.31	62.67	312.71	+ 5	−1
	18	−284.34	+87.32	−84.51	+872.00	−1066.11	−336.63	−62.63	−313.05	+ 5	+2
	19	284.44	87.00	84.61	871.68	1066.21	336.96	62.59	313.40	+ 4	+5
	20	284.52	86.67	84.70	871.36	1066.29	337.28	62.54	313.74	+ 2	+7
	21	284.60	86.35	84.78	871.03	1066.37	337.60	62.48	314.08	− 1	+8
	22	284.68	86.02	84.85	870.71	1066.45	337.93	62.41	314.42	− 3	+7
	23	−284.75	+85.70	−84.92	+870.38	−1066.52	−338.26	−62.34	−314.76	− 5	+5
	24	284.81	85.37	84.98	870.06	1066.58	338.59	62.26	315.09	− 6	+3
	25	284.86	85.04	85.04	869.73	1066.63	338.92	62.18	315.43	− 6	0
	26	284.91	84.71	85.09	869.40	1066.68	339.25	62.09	315.77	− 5	−3
	27	284.95	84.38	85.13	869.07	1066.72	339.58	61.99	316.10	− 3	−6
	28	−284.99	+84.05	−85.17	+868.75	−1066.76	−339.90	−61.89	−316.44	0	−7
	29	285.02	83.72	85.20	868.42	1066.79	340.23	61.78	316.77	+ 3	−8
	30	285.04	83.40	85.22	868.10	1066.81	340.56	61.67	317.10	+ 7	−7
	31	285.05	83.07	85.23	867.77	1066.83	340.88	61.55	317.43	+ 9	−4
	32	−285.06	+82.74	−85.24	+867.44	−1066.84	−341.21	−61.42	−317.76	+10	−1
Mittl. Ort		−239.″72	+78.″97	−39.″70	+863.″60	−1021.″62	−344.″79	−66.″50	−307.″47		

*) Die Vorzeichen gelten für die drei nördlichen Sterne, für den südlichen sind sie umzukehren.

Formeln

zur Reduktion auf den scheinbaren Ort

$$A = t - (0.34213 + 0.00034\,T)\sin\Omega + 0.00415\sin 2\Omega - 0.02525\sin 2L_{\odot}$$
$$+ 0.00250\sin M_{\odot} - 0.00099\sin(2L_{\odot}+M_{\odot}) + 0.00042\sin(2L_{\odot}-M_{\odot})$$
$$+ 0.00024\sin(2L_{\odot}-\Omega) + 0.00010\sin(2L_{☾}-2M_{☾}-\Omega)$$
$$+ 0.00008\sin(2L_{\odot}-2L_{☾}+2M_{☾})$$

$$A' = -0.00405\sin 2L_{☾} + 0.00135\sin M_{☾} - 0.00067\sin(2L_{☾}-\Omega)$$
$$-0.00052\sin(2L_{☾}+M_{☾}) + 0.00030\sin(2L_{☾}-2L_{\odot}-M_{☾})$$
$$+0.00022\sin(2L_{☾}-M_{☾}) + 0.00012\sin(2L_{☾}-2L_{\odot})$$
$$+0.00012\sin(M_{☾}+\Omega) + 0.00012\sin(M_{☾}-\Omega)$$
$$-0.00010\sin(4L_{☾}-2L_{\odot}-M_{☾}) - 0.00008\sin(2L_{☾}+M_{☾}-\Omega)$$

$$B = -(9''\!.210 + 0''\!.001\,T)\cos\Omega + 0''\!.090\cos 2\Omega - 0''\!.551\cos 2L_{\odot}$$
$$-0''\!.022\cos(2L_{\odot}+M_{\odot}) + 0''\!.009\cos(2L_{\odot}-M_{\odot})$$
$$+0''\!.007\cos(2L_{\odot}-\Omega) + 0''\!.003\cos(2L_{☾}-2M_{☾}-\Omega)$$

$$B' = -0''\!.089\cos 2L_{☾} - 0''\!.018\cos(2L_{☾}-\Omega) - 0''\!.011\cos(2L_{☾}+M_{☾})$$
$$+0''\!.005\cos(2L_{☾}-M_{☾}) + 0''\!.003\cos(M_{☾}+\Omega) - 0''\!.003\cos(M_{☾}-\Omega)$$
$$-0''\!.002\cos(4L_{☾}-2L_{\odot}-M_{☾}) - 0''\!.002\cos(2L_{☾}+M_{☾}-\Omega)$$

$$C = -20''\!.47\cos\odot\cos\varepsilon$$
$$D = -20''\!.47\sin\odot$$
$$E = -(0^s\!.0029 - 0^s\!.0004\,T)\sin\Omega$$

T Zeit seit 1900.0 in Einheiten von 100 tropischen Jahren,
t Zeit seit Beginn des annus fictus in Bruchteilen des tropischen Jahres;

$t = 0$ für 1938 Januar $1^d\!.0170$ Welt-Zeit.

$a = m + \frac{1}{15}\,n\sin\alpha\,\mathrm{tg}\,\delta$	$a' = n\cos\alpha$
$b = \frac{1}{15}\cos\alpha\,\mathrm{tg}\,\delta$	$b' = -\sin\alpha$
$c = \frac{1}{15}\cos\alpha\sec\delta$	$c' = \mathrm{tg}\,\varepsilon\cos\delta - \sin\alpha\sin\delta$
$d = \frac{1}{15}\sin\alpha\sec\delta$	$d' = \cos\alpha\sin\delta$

Für 1938.0 gilt: $m = +3^s\!.0731$, $n = +20''\!.044$, $\varepsilon = 23°\,26'\,50''\!.46$

$$\alpha_{app.} = \alpha_{1938.0} + t\mu_\alpha + Aa + Bb + Cc + Dd + E + [A'a + B'b]$$
$$\delta_{app.} = \delta_{1938.0} + t\mu_\delta + Aa' + Bb' + Cc' + Dd' + [A'a' + B'b']$$

μ_α, μ_δ jährliche Eigenbewegung in Rektaszension, bez. Deklination.

Setzt man

$f = mA + E$	$f' = mA'$	$i = C\,\mathrm{tg}\,\varepsilon$
$g\sin G = B$	$g'\sin G' = B'$	$h\sin H = C$
$g\cos G = nA$	$g'\cos G' = nA'$	$h\cos H = D,$

so wird:

$$\alpha_{app.} = \alpha_{1938.0} + t\mu_\alpha + f + \tfrac{1}{15}\,g\sin(G+\alpha)\,\mathrm{tg}\,\delta + \tfrac{1}{15}\,h\sin(H+\alpha)\sec\delta$$
$$+ [f' + \tfrac{1}{15}\,g'\sin(G'+\alpha)\,\mathrm{tg}\,\delta]$$
$$\delta_{app.} = \delta_{1938.0} + t\mu_\delta + g\cos(G+\alpha) + h\cos(H+\alpha)\sin\delta + i\cos\delta$$
$$+ [g'\cos(G'+\alpha)]$$

Reduktionsgrößen 1938

für 12ʰ Sternzeit Greenwich

Welt-Zeit		t	log A	log B	log C	log D	E
1938		a					s
Jan.	0.2	−0.0022	9.50121	0.65186	0.47422n	1.30559	+0.0024
	10.2	+0.0251	9.54599	0.65031	0.79281n	1.28601	24
	20.2	0.0524	9.58430	0.64355	0.96544n	1.25103	24
	30.1	0.0797	9.61659	0.63286	1.07802n	1.19794	24
Febr.	9.1	0.1070	9.64354	0.62045	1.15606n	1.12186	24
	19.1	0.1344	9.66592	0.60885	1.21026n	1.01292	+0.0023
März	1.1	0.1617	9.68467	0.60065	1.24613n	0.84905	23
	11.0	0.1890	9.70087	0.59802	1.26677n	0.55919	23
	21.0	0.2163	9.71553	0.60206	1.27367n	8.98677	23
	31.0	0.2436	9.72964	0.61331	1.26757n	0.53352n	23
April	10.0	0.2709	9.74403	0.63033	1.24824n	0.83302n	+0.0023
	19.9	0.2982	9.75931	0.65157	1.21471n	0.99926n	23
	29.9	0.3255	9.77583	0.67468	1.16483n	1.10900n	23
Mai	9.9	0.3528	9.79366	0.69775	1.09447n	1.18597n	22
	19.8	0.3801	9.81259	0.71883	0.99577n	1.24035n	22
	29.8	0.4074	9.83229	0.73695	0.85187n	1.27752n	+0.0022
Juni	8.8	0.4347	9.85227	0.75066	0.61574n	1.30038n	22
	18.8	0.4620	9.87202	0.76012	0.01620n	1.31046n	22
	28.7	0.4893	9.89106	0.76477	0.31723	1.30846n	22
Juli	8.7	0.5166	9.90896	0.76515	0.71020	1.29429n	22
	18.7	0.5439	9.92542	0.76170	0.90553	1.26710n	+0.0022
	28.7	0.5712	9.94024	0.75526	1.03104	1.22505n	21
Aug.	7.6	0.5985	9.95333	0.74687	1.11883	1.16486n	21
	17.6	0.6258	9.96475	0.73807	1.18167	1.08027n	21
	27.6	0.6531	9.97466	0.73038	1.22596	0.95885n	21
Sept.	6.5	0.6804	9.98332	0.72550	1.25491	0.77034n	+0.0021
	16.5	0.7077	9.99110	0.72469	1.27042	0.39881n	21
	26.5	0.7350	9.99840	0.72884	1.27321	9.98900	20
Okt.	6.5	0.7624	0.00569	0.73807	1.26323	0.64758	20
	16.4	0.7897	0.01336	0.75166	1.23962	0.89209	20
	26.4	0.8170	0.02179	0.76834	1.20058	1.03922	+0.0020
Nov.	5.4	0.8443	0.03119	0.78668	1.14273	1.13909	20
	15.4	0.8716	0.04161	0.80482	1.05987	1.20954	20
	25.3	0.8989	0.05298	0.82105	0.93972	1.25859	19
Dez.	5.3	0.9262	0.06506	0.83417	0.75189	1.29050	19
	15.3	0.9535	0.07749	0.84348	0.38166	1.30752	+0.0019
	25.2	0.9808	0.08988	0.84844	9.96047n	1.31061	19
	35.2	1.0081	0.10183	0.84899	0.62428n	1.29994	+0.0019

Tag	0h Welt-Zeit								
	Stern-zeit Greenw.	*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
1938	h	s	s		h m		h m		"
Jan. 0	6.6	−0.0028	+0.974	0.8903	2 21.1	1.3103	23 27.3	0.1011*n*	−1.262
1	6.7	0.0000	0.985	0.8936	2 19.9	1.3101	23 23.5	0.1477*n*	1.405
2	6.7	+0.0027	0.996	0.8968	2 18.7	1.3099	23 19.7	0.1898*n*	1.548
3	6.8	0.0054	1.007	0.9000	2 17.6	1.3096	23 16.0	0.2279*n*	1.690
4	6.9	0.0082	1.018	0.9031	2 16.5	1.3094	23 12.2	0.2627*n*	1.831
5	6.9	0.0109	1.028	0.9062	2 15.3	1.3091	23 8.4	0.2949*n*	1.972
6	7.0	0.0136	+1.039	0.9092	2 14.2	1.3088	23 4.6	0.3247*n*	−2.112
7	7.1	0.0164	1.050	0.9122	2 13.1	1.3085	23 0.9	0.3524*n*	2.251
8	7.1	0.0191	1.060	0.9152	2 12.0	1.3081	22 57.1	0.3784*n*	2.390
9	7.2	0.0219	1.070	0.9181	2 10.9	1.3078	22 53.3	0.4029*n*	2.529
10	7.3	0.0246	1.081	0.9210	2 9.8	1.3074	22 49.5	0.4259*n*	2.666
11	7.3	0.0273	1.091	0.9239	2 8.7	1.3070	22 45.7	0.4476*n*	2.803
12	7.4	0.0301	+1.101	0.9267	2 7.6	1.3066	22 41.9	0.4680*n*	−2.938
13	7.5	0.0328	1.112	0.9294	2 6.5	1.3062	22 38.0	0.4876*n*	3.073
14	7.5	0.0355	1.122	0.9320	2 5.4	1.3057	22 34.2	0.5061*n*	3.207
15	7.6	0.0383	1.132	0.9346	2 4.4	1.3052	22 30.4	0.5236*n*	3.339
16	7.7	0.0410	1.142	0.9373	2 3.3	1.3048	22 26.5	0.5404*n*	3.471
17	7.7	0.0438	1.152	0.9398	2 2.3	1.3043	22 22.7	0.5564*n*	3.601
18	7.8	0.0465	+1.162	0.9424	2 1.2	1.3038	22 18.8	0.5717*n*	−3.730
19	7.8	0.0492	1.171	0.9448	2 0.2	1.3033	22 15.0	0.5864*n*	3.858
20	7.9	0.0520	1.181	0.9473	1 59.2	1.3027	22 11.1	0.6004*n*	3.985
21	8.0	0.0547	1.190	0.9497	1 58.2	1.3022	22 7.2	0.6140*n*	4.111
22	8.0	0.0574	1.200	0.9521	1 57.2	1.3016	22 3.3	0.6268*n*	4.235
23	8.1	0.0602	1.209	0.9544	1 56.2	1.3010	21 59.4	0.6393*n*	4.358
24	8.2	0.0629	+1.219	0.9567	1 55.2	1.3004	21 55.5	0.6512*n*	−4.479
25	8.2	0.0657	1.228	0.9590	1 54.3	1.2999	21 51.6	0.6627*n*	4.599
26	8.3	0.0684	1.237	0.9613	1 53.3	1.2993	21 47.6	0.6738*n*	4.718
27	8.4	0.0711	1.246	0.9635	1 52.4	1.2986	21 43.7	0.6844*n*	4.835
28	8.4	0.0739	1.255	0.9657	1 51.4	1.2980	21 39.7	0.6946*n*	4.950
29	8.5	0.0766	1.264	0.9678	1 50.5	1.2974	21 35.8	0.7045*n*	5.064
30	8.6	0.0793	+1.272	0.9699	1 49.6	1.2968	21 31.8	0.7140*n*	−5.176
31	8.6	0.0821	1.281	0.9719	1 48.7	1.2961	21 27.8	0.7232*n*	5.287
Febr. 1	8.7	0.0848	1.290	0.9739	1 47.8	1.2955	21 23.8	0.7321*n*	5.396
2	8.8	0.0876	1.298	0.9759	1 47.0	1.2948	21 19.8	0.7406*n*	5.503
3	8.8	0.0903	1.306	0.9779	1 46.1	1.2942	21 15.8	0.7489*n*	5.609
4	8.9	0.0930	1.315	0.9799	1 45.3	1.2935	21 11.7	0.7568*n*	5.712
5	9.0	0.0958	+1.323	0.9818	1 44.5	1.2928	21 7.7	0.7645*n*	−5.814
6	9.0	0.0985	1.331	0.9837	1 43.7	1.2922	21 3.6	0.7719*n*	5.914
7	9.1	0.1013	1.339	0.9856	1 42.9	1.2915	20 59.6	0.7790*n*	6.012
8	9.2	0.1040	1.346	0.9874	1 42.1	1.2908	20 55.5	0.7859*n*	6.108
9	9.2	0.1067	1.354	0.9892	1 41.3	1.2902	20 51.4	0.7926*n*	6.203
10	9.3	0.1095	+1.362	0.9910	1 40.6	1.2895	20 47.3	0.7990*n*	−6.295

Tag	0h Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1938.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1938	in 0.001 s	in 0.01 "	h	"	"	in 0.01 "	23° 26' "	"	in 0.01 "	in 0.001	
Jan. 0	− 2	+ 8	6.6	−0.14	+16.07	− 3	50.45	−4.48	−8	34	89
1	+ 2	8	5.4	0.00	16.11	+ 3	50.45	4.49	−7	34	89
2	+ 5	7	4.1	+0.14	16.15	+ 8	50.45	4.49	−6	34	89
3	+ 7	6	2.3	0.27	16.19	+12	50.45	4.49	−4	35	89
4	+ 8	5	0.1	0.41	16.23	+13	50.45	4.49	0	35	89
5	+ 7	6	21.6	0.55	16.27	+12	50.45	4.49	+3	35	89
6	+ 4	+ 7	19.6	+0.68	+16.30	+ 7	50.45	−4.48	+6	35	89
7	0	8	18.0	0.82	16.34	0	50.45	4.48	+8	36	89
8	− 6	9	16.4	0.96	16.37	− 9	50.44	4.48	+9	36	89
9	−11	10	15.1	1.10	16.41	−18	50.44	4.48	+7	36	89
10	−15	10	13.5	1.24	16.44	−24	50.44	4.47	+4	36	89
11	−16	10	12.0	1.37	16.47	−26	50.44	4.47	0	37	89
12	−14	+10	10.3	+1.51	+16.50	−23	50.44	−4.46	−4	37	88
13	− 9	9	8.5	1.65	16.53	−15	50.44	4.46	−7	37	88
14	− 2	9	6.6	1.78	16.56	− 3	50.44	4.45	−9	37	88
15	+ 5	9	4.5	1.92	16.58	+ 9	50.44	4.44	−8	38	88
16	+11	9	2.4	2.06	16.61	+19	50.43	4.44	−5	38	88
17	+15	10	0.6	2.20	16.63	+24	50.43	4.43	−1	38	88
18	+15	+10	22.9	+2.34	+16.66	+25	50.43	−4.42	+3	38	88
19	+12	10	21.5	2.47	16.68	+20	50.43	4.41	+6	38	88
20	+ 8	9	20.1	2.61	16.70	+12	50.43	4.40	+8	39	88
21	+ 2	8	18.7	2.75	16.72	+ 3	50.43	4.39	+8	39	87
22	− 3	6	16.9	2.89	16.73	− 5	50.43	4.38	+6	39	87
23	− 7	5	14.3	3.03	16.75	−11	50.42	4.37	+3	39	87
24	− 8	+ 5	11.8	+3.16	+16.77	−13	50.42	−4.36	0	39	87
25	− 8	6	9.5	3.30	16.78	−12	50.42	4.35	−4	40	87
26	− 5	7	8.0	3.44	16.79	− 9	50.42	4.34	−6	40	87
27	− 2	8	6.7	3.57	16.80	− 4	50.42	4.33	−8	40	87
28	+ 1	8	5.6	3.71	16.81	+ 2	50.42	4.32	−8	40	87
29	+ 5	7	4.3	3.85	16.81	+ 8	50.42	4.31	−6	40	87
30	+ 7	+ 6	2.7	+3.99	+16.82	+12	50.42	−4.30	−4	41	86
31	+ 9	6	0.6	4.13	16.82	+14	50.41	4.28	−1	41	86
Febr. 1	+ 8	6	22.4	4.26	16.83	+13	50.41	4.27	+2	41	86
2	+ 6	7	20.4	4.40	16.83	+10	50.41	4.26	+5	41	86
3	+ 2	8	18.6	4.54	16.82	+ 3	50.41	4.25	+8	41	86
4	− 3	9	17.1	4.67	16.82	− 5	50.41	4.24	+9	42	86
5	− 9	+10	15.6	+4.81	+16.81	−14	50.41	−4.22	+8	42	86
6	−13	10	14.1	4.95	16.81	−21	50.41	4.21	+5	42	85
7	−15	10	12.5	5.09	16.80	−24	50.41	4.20	+1	42	85
8	−14	10	10.9	5.23	16.79	−23	50.40	4.19	−3	42	85
9	−10	9	9.1	5.36	16.78	−17	50.40	4.17	−6	43	85
10	− 5	+ 9	7.3	+5.50	+16.77	− 7	50.40	−4.16	−8	43	85

Tag	0ʰ Welt-Zeit								
	Stern-zeit Greenw.	t	f	log g	G	log h	H	log i	i
1938	h	s	s		h m		h m		"
Febr. 10	9.3	0.1095	+1.362	0.9910	1 40.6	1.2895	20 47.3	0.7990n	−6.295
11	9.4	0.1122	1.369	0.9927	1 39.9	1.2889	20 43.2	0.8052n	6.385
12	9.4	0.1149	1.376	0.9944	1 39.1	1.2882	20 39.1	0.8112n	6.474
13	9.5	0.1177	1.384	0.9961	1 38.4	1.2876	20 35.0	0.8169n	6.560
14	9.6	0.1204	1.391	0.9977	1 37.7	1.2869	20 30.8	0.8225n	6.645
15	9.6	0.1232	1.398	0.9994	1 37.0	1.2863	20 26.7	0.8278n	6.727
16	9.7	0.1259	+1.405	1.0010	1 36.4	1.2857	20 22.5	0.8329n	−6.806
17	9.8	0.1286	1.412	1.0026	1 35.7	1.2850	20 18.4	0.8378n	6.884
18	9.8	0.1314	1.419	1.0042	1 35.1	1.2844	20 14.2	0.8426n	6.960
19	9.9	0.1341	1.426	1.0058	1 34.5	1.2838	20 10.0	0.8471n	7.033
20	10.0	0.1368	1.432	1.0073	1 34.0	1.2832	20 5.8	0.8515n	7.104
21	10.0	0.1396	1.439	1.0089	1 33.4	1.2827	20 1.6	0.8557n	7.173
22	10.1	0.1423	+1.445	1.0104	1 32.8	1.2821	19 57.4	0.8597n	−7.240
23	10.1	0.1451	1.452	1.0119	1 32.3	1.2815	19 53.1	0.8636n	7.305
24	10.2	0.1478	1.458	1.0133	1 31.8	1.2810	19 48.9	0.8673n	7.367
25	10.3	0.1505	1.464	1.0148	1 31.3	1.2805	19 44.6	0.8708n	7.427
26	10.3	0.1533	1.471	1.0163	1 30.8	1.2800	19 40.4	0.8741n	7.484
27	10.4	0.1560	1.477	1.0177	1 30.3	1.2795	19 36.1	0.8773n	7.539
28	10.5	0.1588	+1.483	1.0191	1 29.8	1.2790	19 31.9	0.8804n	−7.592
März 1	10.5	0.1615	1.489	1.0205	1 29.4	1.2785	19 27.6	0.8833n	7.643
2	10.6	0.1642	1.495	1.0219	1 29.0	1.2781	19 23.3	0.8860n	7.691
3	10.7	0.1670	1.501	1.0233	1 28.6	1.2776	19 19.0	0.8886n	7.737
4	10.7	0.1697	1.506	1.0246	1 28.2	1.2772	19 14.7	0.8910n	7.780
5	10.8	0.1724	1.512	1.0260	1 27.8	1.2768	19 10.4	0.8933n	7.821
6	10.9	0.1752	+1.518	1.0274	1 27.4	1.2765	19 6.1	0.8954n	−7.859
7	10.9	0.1779	1.524	1.0287	1 27.1	1.2761	19 1.8	0.8974n	7.895
8	11.0	0.1807	1.529	1.0301	1 26.8	1.2758	18 57.5	0.8992n	7.929
9	11.1	0.1834	1.535	1.0314	1 26.5	1.2755	18 53.2	0.9009n	7.960
10	11.1	0.1861	1.540	1.0327	1 26.2	1.2752	18 48.8	0.9026n	7.990
11	11.2	0.1889	1.546	1.0341	1 25.9	1.2750	18 44.5	0.9040n	8.017
12	11.3	0.1916	+1.551	1.0354	1 25.7	1.2747	18 40.2	0.9053n	−8.041
13	11.3	0.1943	1.556	1.0367	1 25.4	1.2745	18 35.8	0.9064n	8.062
14	11.4	0.1971	1.562	1.0381	1 25.2	1.2743	18 31.5	0.9075n	8.081
15	11.5	0.1998	1.567	1.0394	1 25.0	1.2742	18 27.2	0.9084n	8.098
16	11.5	0.2026	1.572	1.0408	1 24.8	1.2740	18 22.8	0.9091n	8.112
17	11.6	0.2053	1.578	1.0421	1 24.6	1.2739	18 18.5	0.9098n	8.124
18	11.7	0.2080	+1.583	1.0434	1 24.4	1.2738	18 14.2	0.9102n	−8.133
19	11.7	0.2108	1.588	1.0448	1 24.3	1.2738	18 9.8	0.9106n	8.140
20	11.8	0.2135	1.594	1.0461	1 24.2	1.2737	18 5.5	0.9108n	8.144
21	11.9	0.2162	1.599	1.0475	1 24.0	1.2737	18 1.2	0.9109n	8.146
22	11.9	0.2190	1.604	1.0489	1 23.9	1.2737	17 56.9	0.9109n	8.145
23	12.0	0.2217	+1.609	1.0502	1 23.8	1.2737	17 52.5	0.9107n	−8.142

Tag	0ʰ Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1938.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1938	s in 0.001	" in 0.01	h	"	"	" in 0.01	23° 26' "	"	" in 0.01	in 0.001	
Febr. 10	− 5	+9	7.3	+ 5.50	+16.77	− 7	50.40	−4.16	−8	43	85
11	+ 2	9	5.3	5.64	16.75	+ 4	50.40	4.15	−8	43	85
12	+ 8	8	3.3	5.78	16.74	+14	50.40	4.14	−6	43	85
13	+13	9	1.2	5.92	16.72	+21	50.40	4.13	−3	43	85
14	+14	9	23.4	6.05	16.70	+23	50.40	4.12	+1	43	85
15	+12	9	21.9	6.19	16.68	+20	50.40	4.10	+5	44	84
16	+ 8	+9	20.4	+ 6.33	+16.65	+14	50.39	−4.09	+7	44	84
17	+ 3	8	19.0	6.46	16.63	+ 5	50.39	4.08	+8	44	84
18	− 2	7	17.3	6.60	16.60	− 3	50.39	4.07	+7	44	84
19	− 6	6	15.2	6.74	16.58	−10	50.39	4.06	+4	44	84
20	− 8	5	12.6	6.88	16.55	−13	50.39	4.05	+1	44	84
21	− 8	6	10.3	7.02	16.52	−13	50.39	4.05	−3	45	84
22	− 6	+7	8.5	+ 7.15	+16.49	−11	50.39	−4.04	−6	45	84
23	− 4	8	7.2	7.29	16.45	− 6	50.39	4.03	−7	45	84
24	0	8	6.0	7.43	16.42	0	50.38	4.02	−8	45	83
25	+ 4	8	4.7	7.56	16.38	+ 6	50.38	4.01	−7	45	83
26	+ 7	7	3.2	7.70	16.35	+11	50.38	4.01	−5	45	83
27	+ 9	6	1.3	7.84	16.31	+15	50.38	4.00	−2	45	83
28	+ 9	+6	23.1	+ 7.98	+16.27	+15	50.38	−3.99	+1	46	83
März 1	+ 7	7	21.0	8.12	16.23	+12	50.38	3.99	+5	46	83
2	+ 4	8	19.3	8.25	16.19	+ 6	50.38	3.98	+7	46	83
3	− 1	8	17.6	8.39	16.15	− 2	50.37	3.98	+9	46	83
4	− 6	9	16.2	8.53	16.11	−10	50.37	3.97	+8	46	83
5	−11	9	14.7	8.67	16.06	−18	50.37	3.97	+6	46	83
6	−14	+9	13.1	+ 8.81	+16.02	−22	50.37	−3.97	+3	46	83
7	−14	9	11.4	8.94	15.97	−22	50.37	3.96	−1	47	82
8	−11	9	9.5	9.08	15.93	−18	50.37	3.96	−5	47	82
9	− 6	9	7.6	9.22	15.88	− 9	50.37	3.96	−8	47	82
10	+ 1	8	5.8	9.35	15.83	+ 1	50.37	3.96	−9	47	82
11	+ 7	8	3.8	9.49	15.78	+11	50.36	3.96	−7	47	82
12	+11	+8	1.8	+ 9.63	+15.73	+19	50.36	−3.96	−4	47	82
13	+13	9	0.0	9.77	15.68	+22	50.36	3.96	0	47	82
14	+12	9	22.3	9.91	15.63	+20	50.36	3.97	+4	48	82
15	+ 9	9	20.8	10.04	15.58	+15	50.36	3.97	+7	48	82
16	+ 4	8	19.3	10.18	15.53	+ 7	50.36	3.97	+8	48	82
17	− 1	7	17.7	10.32	15.48	− 1	50.36	3.98	+7	48	82
18	− 5	+6	15.8	+10.46	+15.43	− 8	50.36	−3.98	+5	48	82
19	− 8	6	13.4	10.60	15.38	−13	50.35	3.99	+2	48	82
20	− 9	6	11.1	10.73	15.33	−14	50.35	3.99	−1	49	82
21	− 8	7	9.2	10.87	15.27	−13	50.35	4.00	−5	49	82
22	− 5	8	7.7	11.01	15.22	− 8	50.35	4.01	−7	49	82
23	− 2	+8	6.5	+11.14	+15.17	− 3	50.35	−4.01	−8	49	82

Tag	0h Welt-Zeit								
	Sternzeit Greenw.	*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
1938	h	a	s		h m		h m		"
März 23	12.0	0.2217	+1.609	1.0502	1 23.8	1.2737	17 52.5	0.9107n	−8.142
24	12.1	0.2245	1.614	1.0516	1 23.8	1.2738	17 48.2	0.9105n	8.137
25	12.1	0.2272	1.620	1.0529	1 23.7	1.2739	17 43.9	0.9100n	8.129
26	12.2	0.2299	1.625	1.0543	1 23.6	1.2740	17 39.6	0.9094n	8.118
27	12.3	0.2327	1.630	1.0556	1 23.6	1.2741	17 35.3	0.9088n	8.105
28	12.3	0.2354	1.636	1.0570	1 23.5	1.2742	17 31.0	0.9080n	8.090
29	12.4	0.2382	+1.641	1.0584	1 23.5	1.2744	17 26.7	0.9070n	−8.073
30	12.4	0.2409	1.646	1.0598	1 23.5	1.2746	17 22.4	0.9060n	8.053
31	12.5	0.2436	1.652	1.0612	1 23.5	1.2748	17 18.1	0.9048n	8.031
April 1	12.6	0.2464	1.657	1.0626	1 23.5	1.2751	17 13.8	0.9034n	8.006
2	12.6	0.2491	1.663	1.0640	1 23.5	1.2753	17 9.5	0.9020n	7.979
3	12.7	0.2518	1.668	1.0655	1 23.6	1.2756	17 5.3	0.9004n	7.950
4	12.8	0.2546	+1.674	1.0670	1 23.6	1.2759	17 1.0	0.8987n	−7.919
5	12.8	0.2573	1.679	1.0685	1 23.6	1.2762	16 56.8	0.8968n	7.885
6	12.9	0.2601	1.685	1.0700	1 23.7	1.2766	16 52.5	0.8948n	7.848
7	13.0	0.2628	1.690	1.0714	1 23.8	1.2770	16 48.3	0.8926n	7.809
8	13.0	0.2655	1.696	1.0729	1 23.8	1.2774	16 44.1	0.8903n	7.768
9	13.1	0.2683	1.702	1.0745	1 23.9	1.2778	16 39.9	0.8879n	7.725
10	13.2	0.2710	+1.708	1.0760	1 24.0	1.2782	16 35.7	0.8854n	−7.680
11	13.2	0.2737	1.713	1.0775	1 24.1	1.2786	16 31.5	0.8826n	7.632
12	13.3	0.2765	1.719	1.0791	1 24.2	1.2791	16 27.3	0.8798n	7.582
13	13.4	0.2792	1.725	1.0807	1 24.3	1.2795	16 23.2	0.8768n	7.530
14	13.4	0.2820	1.731	1.0823	1 24.4	1.2800	16 19.0	0.8737n	7.476
15	13.5	0.2847	1.737	1.0839	1 24.5	1.2805	16 14.9	0.8704n	7.420
16	13.6	0.2874	+1.744	1.0855	1 24.6	1.2810	16 10.7	0.8669n	−7.361
17	13.6	0.2902	1.750	1.0871	1 24.7	1.2816	16 6.6	0.8634n	7.301
18	13.7	0.2929	1.756	1.0888	1 24.8	1.2821	16 2.5	0.8596n	7.238
19	13.8	0.2956	1.762	1.0904	1 24.9	1.2827	15 58.4	0.8557n	7.173
20	13.8	0.2984	1.769	1.0921	1 25.0	1.2832	15 54.4	0.8516n	7.106
21	13.9	0.3011	1.775	1.0938	1 25.2	1.2838	15 50.3	0.8474n	7.037
22	14.0	0.3039	+1.782	1.0955	1 25.3	1.2844	15 46.2	0.8430n	−6.966
23	14.0	0.3066	1.789	1.0972	1 25.4	1.2850	15 42.2	0.8385n	6.894
24	14.1	0.3093	1.795	1.0989	1 25.5	1.2856	15 38.2	0.8337n	6.819
25	14.2	0.3121	1.802	1.1007	1 25.7	1.2862	15 34.2	0.8288n	6.742
26	14.2	0.3148	1.809	1.1024	1 25.8	1.2868	15 30.2	0.8237n	6.664
27	14.3	0.3175	1.816	1.1042	1 25.9	1.2874	15 26.2	0.8184n	6.583
28	14.4	0.3203	+1.823	1.1060	1 26.0	1.2880	15 22.2	0.8129n	−6.500
29	14.4	0.3230	1.830	1.1078	1 26.1	1.2887	15 18.2	0.8073n	6.416
30	14.5	0.3258	1.838	1.1096	1 26.2	1.2893	15 14.3	0.8014n	6.330
Mai 1	14.6	0.3285	1.845	1.1114	1 26.4	1.2899	15 10.4	0.7954n	6.243
2	14.6	0.3312	1.852	1.1132	1 26.5	1.2906	15 6.4	0.7892n	6.154
3	14.7	0.3340	+1.860	1.1151	1 26.6	1.2912	15 2.5	0.7827n	−6.063

Tag		0h Welt-Zeit										
		f'	g'	G'	Allgemeine Präzession seit 1938.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1938		s in 0.001	" in 0.01	h	"	"	" in 0.01	23°26′ "	"	" in 0.01	in 0.001	in 0.001
März	23	− 2	+ 8	6.5	+11.14	+15.17	− 3	50.35	−4.01	−8	49	82
	24	+ 2	8	5.3	11.28	15.12	+ 4	50.35	4.02	−7	49	82
	25	+ 6	7	3.9	11.42	15.07	+ 9	50.35	4.03	−6	49	82
	26	+ 8	6	2.1	11.56	15.01	+13	50.35	4.04	−3	49	82
	27	+ 9	6	23.9	11.70	14.96	+14	50.34	4.05	0	50	82
	28	+ 8	6	21.6	11.83	14.91	+13	50.34	4.07	+4	50	82
	29	+ 5	+ 7	19.7	+11.97	+14.86	+ 8	50.34	−4.08	+7	50	82
	30	0	8	18.1	12.11	14.81	+ 1	50.34	4.09	+8	50	82
	31	− 5	9	16.6	12.24	14.76	− 8	50.34	4.10	+8	50	82
April	1	−10	9	15.2	12.38	14.71	−16	50.34	4.12	+7	50	82
	2	−13	9	13.7	12.52	14.66	−21	50.34	4.13	+4	51	82
	3	−13	9	11.9	12.66	14.61	−22	50.33	4.15	0	51	82
	4	−11	+ 8	10.0	+12.80	+14.57	−18	50.33	−4.16	−4	51	82
	5	− 7	8	8.0	12.93	14.52	−11	50.33	4.18	−7	51	83
	6	0	8	6.1	13.07	14.47	− 1	50.33	4.20	−8	51	83
	7	+ 6	9	4.1	13.21	14.43	+10	50.33	4.21	−8	51	83
	8	+11	9	2.2	13.35	14.38	+18	50.33	4.23	−5	52	83
	9	+14	9	0.5	13.49	14.34	+23	50.33	4.25	−1	52	83
	10	+13	+ 9	22.9	+13.62	+14.30	+22	50.33	−4.27	+3	52	83
	11	+10	9	21.3	13.76	14.25	+17	50.32	4.29	+6	52	83
	12	+ 6	8	19.8	13.90	14.21	+10	50.32	4.31	+8	52	83
	13	+ 1	7	18.2	14.03	14.17	+ 1	50.32	4.33	+7	53	83
	14	− 4	6	16.4	14.17	14.13	− 7	50.32	4.35	+6	53	83
	15	− 8	6	14.1	14.31	14.09	−12	50.32	4.37	+3	53	83
	16	− 9	+ 6	11.7	+14.45	+14.06	−14	50.32	−4.39	−1	53	83
	17	− 8	6	9.7	14.59	14.02	−14	50.32	4.42	−4	53	84
	18	− 6	7	8.2	14.72	13.98	−10	50.32	4.44	−6	54	84
	19	− 3	8	7.0	14.86	13.95	− 5	50.31	4.46	−7	54	84
	20	+ 1	8	5.8	15.00	13.92	+ 1	50.31	4.49	−8	54	84
	21	+ 4	7	4.5	15.13	13.89	+ 7	50.31	4.51	−7	54	84
	22	+ 7	+ 6	3.0	+15.27	+13.86	+11	50.31	−4.53	−4	54	84
	23	+ 8	6	0.8	15.41	13.83	+13	50.31	4.56	−1	55	84
	24	+ 8	6	22.3	15.55	13.80	+13	50.31	4.58	+2	55	84
	25	+ 6	7	20.2	15.69	13.78	+ 9	50.31	4.61	+5	55	84
	26	+ 1	8	18.5	15.82	13.75	+ 2	50.31	4.63	+8	55	84
	27	− 4	9	16.9	15.96	13.73	− 6	50.30	4.66	+9	55	85
	28	− 9	+10	15.6	+16.10	+13.71	−15	50.30	−4.68	+8	56	85
	29	−13	10	14.1	16.24	13.69	−21	50.30	4.71	+5	56	85
	30	−14	9	12.5	16.38	13.67	−23	50.30	4.73	+1	56	85
Mai	1	−13	9	10.7	16.51	13.65	−21	50.30	4.76	−3	56	85
	2	− 8	8	8.7	16.65	13.63	−14	50.30	4.78	−6	57	85
	3	− 2	+ 9	6.7	+16.79	+13.62	− 4	50.30	−4.81	−8	57	85

Tag	0ʰ Welt-Zeit								
	Sternzeit Greenw.	*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
1938	h	s	s		h m		h m		"
Mai 3	14.7	0.3340	+1.860	1.1151	1 26.6	1.2912	15 2.5	0.7827_n	−6.063
4	14.7	0.3367	1.867	1.1169	1 26.7	1.2918	14 58.6	0.7760_n	5.970
5	14.8	0.3395	1.875	1.1188	1 26.8	1.2924	14 54.8	0.7690_n	5.875
6	14.9	0.3422	1.883	1.1206	1 26.9	1.2931	14 50.9	0.7618_n	5.779
7	14.9	0.3449	1.891	1.1225	1 27.0	1.2937	14 47.0	0.7544_n	5.681
8	15.0	0.3477	1.898	1.1244	1 27.0	1.2943	14 43.2	0.7468_n	5.582
9	15.1	0.3504	+1.906	1.1263	1 27.1	1.2950	14 39.4	0.7389_n	−5.481
10	15.1	0.3531	1.915	1.1282	1 27.2	1.2956	14 35.6	0.7306_n	5.378
11	15.2	0.3559	1.923	1.1301	1 27.3	1.2962	14 31.7	0.7221_n	5.274
12	15.3	0.3586	1.931	1.1320	1 27.3	1.2968	14 28.0	0.7134_n	5.169
13	15.3	0.3614	1.939	1.1339	1 27.4	1.2974	14 24.2	0.7043_n	5.062
14	15.4	0.3641	1.948	1.1358	1 27.4	1.2980	14 20.4	0.6950_n	4.954
15	15.5	0.3668	+1.956	1.1378	1 27.5	1.2986	14 16.6	0.6853_n	−4.845
16	15.5	0.3696	1.965	1.1397	1 27.5	1.2992	14 12.9	0.6752_n	4.734
17	15.6	0.3723	1.974	1.1417	1 27.5	1.2998	14 9.2	0.6648_n	4.622
18	15.7	0.3750	1.982	1.1436	1 27.6	1.3003	14 5.5	0.6540_n	4.508
19	15.7	0.3778	1.991	1.1455	1 27.6	1.3009	14 1.8	0.6428_n	4.393
20	15.8	0.3805	2.000	1.1475	1 27.6	1.3014	13 58.0	0.6312_n	4.278
21	15.9	0.3833	+2.009	1.1494	1 27.6	1.3019	13 54.4	0.6192_n	−4.161
22	15.9	0.3860	2.018	1.1514	1 27.6	1.3025	13 50.7	0.6066_n	4.042
23	16.0	0.3887	2.027	1.1533	1 27.6	1.3030	13 47.0	0.5936_n	3.923
24	16.1	0.3915	2.036	1.1552	1 27.6	1.3035	13 43.4	0.5801_n	3.803
25	16.1	0.3942	2.046	1.1572	1 27.5	1.3040	13 39.7	0.5661_n	3.682
26	16.2	0.3969	2.055	1.1591	1 27.5	1.3044	13 36.1	0.5513_n	3.559
27	16.3	0.3997	+2.064	1.1611	1 27.4	1.3049	13 32.4	0.5360_n	−3.436
28	16.3	0.4024	2.074	1.1630	1 27.4	1.3054	13 28.8	0.5201_n	3.312
29	16.4	0.4052	2.083	1.1650	1 27.3	1.3058	13 25.2	0.5034_n	3.187
30	16.5	0.4079	2.093	1.1670	1 27.2	1.3062	13 21.6	0.4859_n	3.061
31	16.5	0.4106	2.103	1.1689	1 27.2	1.3066	13 18.0	0.4675_n	2.934
Juni 1	16.6	0.4134	2.112	1.1708	1 27.1	1.3070	13 14.4	0.4482_n	2.807
2	16.7	0.4161	+2.122	1.1728	1 27.0	1.3074	13 10.9	0.4278_n	−2.678
3	16.7	0.4189	2.132	1.1747	1 26.9	1.3077	13 7.3	0.4064_n	2.549
4	16.8	0.4216	2.142	1.1766	1 26.8	1.3081	13 3.7	0.3838_n	2.420
5	16.9	0.4243	2.152	1.1785	1 26.7	1.3084	13 0.2	0.3598_n	2.290
6	16.9	0.4271	2.162	1.1804	1 26.5	1.3087	12 56.6	0.3342_n	2.159
7	17.0	0.4298	2.172	1.1823	1 26.4	1.3090	12 53.1	0.3068_n	2.027
8	17.0	0.4325	+2.182	1.1842	1 26.3	1.3093	12 49.5	0.2776_n	−1.895
9	17.1	0.4353	2.192	1.1861	1 26.1	1.3095	12 46.0	0.2462_n	1.763
10	17.2	0.4380	2.202	1.1880	1 26.0	1.3097	12 42.4	0.2122_n	1.630
11	17.2	0.4408	2.212	1.1899	1 25.8	1.3100	12 38.9	0.1749_n	1.496
12	17.3	0.4435	2.222	1.1918	1 25.6	1.3102	12 35.4	0.1345_n	1.363
13	17.4	0.4462	+2.232	1.1936	1 25.5	1.3103	12 31.9	0.0896_n	−1.229

Tag	0h Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1938.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1938	in 0.001 (s)	in 0.01 (")	h	"	"	in 0.01 (")	23° 26' "	"	in 0.01 (")	in 0.001	
Mai 3	− 2	+ 9	6.7	+16.79	+13.62	− 4	50.30	−4.81	−8	57	85
4	+ 5	9	4.7	16.92	13.60	+ 8	50.30	4.84	−8	57	85
5	+11	9	2.7	17.06	13.59	+17	50.29	4.86	−6	57	86
6	+14	10	1.0	17.20	13.58	+23	50.29	4.89	−2	58	86
7	+15	10	23.4	17.34	13.57	+24	50.29	4.91	+2	58	86
8	+13	10	21.9	17.48	13.56	+21	50.29	4.94	+5	58	86
9	+ 8	+ 9	20.5	+17.61	+13.56	+13	50.29	−4.96	+7	58	86
10	+ 3	8	18.9	17.75	13.55	+ 4	50.29	4.99	+8	59	86
11	− 2	7	17.1	17.89	13.55	− 4	50.29	5.02	+6	59	86
12	− 6	6	14.9	18.03	13.55	−10	50.28	5.04	+4	59	86
13	− 8	5	12.3	18.17	13.55	−13	50.28	5.07	0	59	87
14	− 8	6	10.2	18.30	13.55	−13	50.28	5.09	−3	60	87
15	− 6	+ 7	8.5	+18.44	+13.55	−11	50.28	−5.12	−5	60	87
16	− 4	8	7.2	18.58	13.55	− 6	50.28	5.14	−7	60	87
17	0	8	6.1	18.71	13.55	− 1	50.28	5.17	−8	60	87
18	+ 3	7	4.9	18.85	13.56	+ 5	50.28	5.19	−7	61	87
19	+ 6	6	3.4	18.99	13.57	+10	50.28	5.22	−5	61	87
20	+ 8	5	1.6	19.13	13.58	+13	50.27	5.24	−2	61	87
21	+ 8	+ 5	23.1	+19.27	+13.59	+13	50.27	−5.26	+1	62	87
22	+ 6	6	20.8	19.40	13.60	+10	50.27	5.29	+4	62	88
23	+ 2	7	18.9	19.54	13.61	+ 4	50.27	5.31	+7	62	88
24	− 3	9	17.3	19.68	13.62	− 4	50.27	5.33	+9	62	88
25	− 8	10	15.9	19.81	13.63	−13	50.27	5.35	+8	63	88
26	−12	10	14.5	19.95	13.65	−21	50.27	5.38	+6	63	88
27	−15	+10	13.1	+20.09	+13.67	−25	50.27	−5.40	+3	63	88
28	−15	10	11.4	20.23	13.68	−24	50.26	5.42	−1	63	88
29	−11	9	9.6	20.37	13.70	−19	50.26	5.44	−5	64	88
30	− 5	9	7.6	20.50	13.72	− 9	50.26	5.46	−8	64	88
31	+ 2	9	5.5	20.64	13.74	+ 3	50.26	5.48	−9	64	88
Juni 1	+ 8	9	3.4	20.78	13.76	+14	50.26	5.50	−7	65	88
2	+13	+10	1.5	+20.92	+13.78	+22	50.26	−5.52	−4	65	89
3	+15	10	23.9	21.06	13.81	+25	50.26	5.54	0	65	89
4	+14	10	22.3	21.19	13.83	+23	50.26	5.56	+4	66	89
5	+10	10	21.0	21.33	13.85	+17	50.25	5.57	+7	66	89
6	+ 5	9	19.6	21.47	13.88	+ 9	50.25	5.59	+8	66	89
7	0	7	17.9	21.60	13.90	0	50.25	5.61	+7	66	89
8	− 5	+ 6	15.7	+21.74	+13.93	− 8	50.25	−5.62	+5	67	89
9	− 7	5	13.2	21.88	13.96	−12	50.25	5.64	+2	67	89
10	− 8	5	10.6	22.02	13.99	−13	50.25	5.65	−2	67	89
11	− 7	6	8.7	22.16	14.01	−11	50.25	5.67	−5	68	89
12	− 4	7	7.4	22.29	14.04	− 7	50.25	5.68	−7	68	89
13	− 1	+ 7	6.2	+22.43	+14.07	− 1	50.24	−5.69	−8	68	89

Tag	0h Welt-Zeit								
	Sternzeit Greenw.	*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
1938									
	h	a	s		h m		h m		"
Juni 13	17.4	0.4462	+2.232	1.1936	1 25.5	1.3103	12 31.9	0.0896*n*	−1.229
14	17.4	0.4490	2.242	1.1955	1 25.3	1.3105	12 28.4	0.0390*n*	1.094
15	17.5	0.4517	2.252	1.1973	1 25.1	1.3106	12 24.8	9.9818*n*	0.959
16	17.6	0.4544	2.263	1.1992	1 24.9	1.3108	12 21.3	9.9159*n*	0.824
17	17.6	0.4572	2.273	1.2010	1 24.7	1.3109	12 17.8	9.8382*n*	0.689
18	17.7	0.4599	2.283	1.2028	1 24.5	1.3110	12 14.3	9.7435*n*	0.554
19	17.8	0.4627	+2.294	1.2046	1 24.2	1.3110	12 10.8	9.6222*n*	−0.419
20	17.8	0.4654	2.304	1.2063	1 24.0	1.3111	12 7.3	9.4518*n*	0.283
21	17.9	0.4681	2.314	1.2081	1 23.8	1.3111	12 3.8	9.1673*n*	0.147
22	18.0	0.4709	2.324	1.2098	1 23.6	1.3111	12 0.3	8.0792*n*	−0.012
23	18.0	0.4736	2.335	1.2116	1 23.3	1.3111	11 56.8	9.0934	+0.124
24	18.1	0.4763	2.345	1.2133	1 23.1	1.3111	11 53.3	9.4150	0.260
25	18.2	0.4791	+2.355	1.2150	1 22.8	1.3110	11 49.8	9.5966	+0.395
26	18.2	0.4818	2.366	1.2167	1 22.6	1.3110	11 46.3	9.7243	0.530
27	18.3	0.4846	2.376	1.2184	1 22.3	1.3109	11 42.8	9.8228	0.665
28	18.4	0.4873	2.386	1.2201	1 22.0	1.3108	11 39.3	9.9031	0.800
29	18.4	0.4900	2.396	1.2218	1 21.7	1.3107	11 35.8	9.9708	0.935
30	18.5	0.4928	2.406	1.2234	1 21.4	1.3105	11 32.3	0.0294	1.070
Juli 1	18.6	0.4955	+2.417	1.2251	1 21.2	1.3104	11 28.8	0.0806	+1.204
2	18.6	0.4983	2.427	1.2267	1 20.9	1.3102	11 25.3	0.1265	1.338
3	18.7	0.5010	2.437	1.2283	1 20.6	1.3100	11 21.8	0.1676	1.471
4	18.8	0.5037	2.447	1.2299	1 20.3	1.3098	11 18.2	0.2052	1.604
5	18.8	0.5065	2.457	1.2314	1 20.0	1.3095	11 14.7	0.2398	1.737
6	18.9	0.5092	2.467	1.2330	1 19.7	1.3093	11 11.2	0.2716	1.869
7	19.0	0.5119	+2.477	1.2346	1 19.4	1.3090	11 7.6	0.3012	+2.001
8	19.0	0.5147	2.487	1.2361	1 19.0	1.3087	11 4.1	0.3288	2.132
9	19.1	0.5174	2.497	1.2376	1 18.7	1.3084	11 0.6	0.3547	2.263
10	19.2	0.5202	2.507	1.2391	1 18.4	1.3081	10 57.0	0.3789	2.393
11	19.2	0.5229	2.517	1.2406	1 18.1	1.3078	10 53.5	0.4018	2.522
12	19.3	0.5256	2.526	1.2421	1 17.8	1.3075	10 49.9	0.4232	2.650
13	19.3	0.5284	+2.536	1.2435	1 17.4	1.3071	10 46.4	0.4437	+2.778
14	19.4	0.5311	2.546	1.2449	1 17.1	1.3067	10 42.8	0.4632	2.905
15	19.5	0.5338	2.555	1.2464	1 16.8	1.3063	10 39.2	0.4816	3.031
16	19.5	0.5366	2.565	1.2478	1 16.4	1.3059	10 35.6	0.4993	3.157
17	19.6	0.5393	2.574	1.2491	1 16.1	1.3055	10 32.0	0.5160	3.281
18	19.7	0.5421	2.584	1.2505	1 15.8	1.3050	10 28.4	0.5321	3.405
19	19.7	0.5448	+2.593	1.2519	1 15.4	1.3046	10 24.8	0.5475	+3.528
20	19.8	0.5475	2.602	1.2532	1 15.1	1.3041	10 21.2	0.5623	3.650
21	19.9	0.5503	2.612	1.2545	1 14.8	1.3036	10 17.6	0.5763	3.770
22	19.9	0.5530	2.621	1.2558	1 14.4	1.3031	10 14.0	0.5900	3.890
23	20.0	0.5557	2.630	1.2571	1 14.1	1.3026	10 10.4	0.6030	4.009
24	20.1	0.5585	+2.639	1.2584	1 13.7	1.3021	10 6.7	0.6156	+4.127

Tag	f'	g'	G'	Allgemeine Präzession seit 1938.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
	0h Welt-Zeit										
1938	in 0.001 s	in 0.01 "	h	"	"	in 0.01 "	23° 26′ "	"	in 0.01 "	in 0.001	
Juni 13	− 1	+ 7	6.2	+22.43	+14.07	− 1	50.24	−5.69	−8	68	89
14	+ 3	7	5.1	22.57	14.10	+ 5	50.24	5.71	−7	68	89
15	+ 6	7	3.7	22.70	14.13	+ 9	50.24	5.72	−6	69	89
16	+ 8	6	2.2	22.84	14.16	+12	50.24	5.73	−3	69	89
17	+ 8	5	0.0	22.98	14.19	+13	50.24	5.74	0	69	89
18	+ 7	5	21.5	23.12	14.22	+11	50.24	5.75	+3	70	89
19	+ 4	+ 6	19.5	+23.26	+14.25	+ 6	50.24	−5.76	+6	70	89
20	− 1	8	17.8	23.39	14.28	− 1	50.23	5.77	+8	70	89
21	− 6	9	16.3	23.53	14.31	−10	50.23	5.78	+8	70	89
22	−11	10	14.9	23.67	14.34	−19	50.23	5.78	+7	71	89
23	−15	11	13.6	23.81	14.38	−24	50.23	5.79	+4	71	89
24	−16	11	12.0	23.94	14.41	−26	50.23	5.80	0	71	89
25	−14	+10	10.5	+24.08	+14.44	−23	50.23	−5.80	−4	72	89
26	− 9	9	8.7	24.22	14.47	−15	50.23	5.81	−7	72	89
27	− 2	9	6.7	24.36	14.50	− 4	50.23	5.81	−9	72	89
28	+ 5	9	4.5	24.49	14.53	+ 8	50.22	5.82	−8	72	89
29	+11	9	2.4	24.63	14.56	+18	50.22	5.82	−5	73	89
30	+14	10	0.5	24.77	14.59	+24	50.22	5.82	−1	73	89
Juli 1	+15	+10	22.9	+24.91	+14.62	+24	50.22	−5.83	+3	73	89
2	+12	10	21.5	25.05	14.65	+20	50.22	5.83	+6	74	89
3	+ 7	9	20.1	25.18	14.67	+12	50.22	5.83	+8	74	89
4	+ 2	8	18.6	25.32	14.70	+ 3	50.22	5.83	+8	74	89
5	− 3	6	16.8	25.46	14.73	− 5	50.22	5.83	+6	74	89
6	− 6	5	14.1	25.59	14.76	−10	50.21	5.83	+3	75	89
7	− 7	+ 5	11.2	+25.73	+14.78	−12	50.21	−5.83	−1	75	89
8	− 6	6	9.0	25.87	14.81	−11	50.21	5.82	−4	75	89
9	− 4	7	7.5	26.01	14.83	− 7	50.21	5.82	−7	75	89
10	− 1	8	6.3	26.15	14.86	− 1	50.21	5.82	−8	76	89
11	+ 3	8	5.1	26.28	14.88	+ 4	50.21	5.82	−7	76	89
12	+ 6	7	3.9	26.42	14.90	+ 9	50.21	5.81	−6	76	89
13	+ 8	+ 6	2.4	+26.56	+14.92	+13	50.21	−5.81	−4	76	88
14	+ 9	6	0.5	26.70	14.94	+14	50.20	5.80	−1	77	88
15	+ 8	6	22.3	26.83	14.96	+13	50.20	5.80	+2	77	88
16	+ 5	6	20.3	26.97	14.98	+ 9	50.20	5.79	+5	77	88
17	+ 1	7	18.4	27.11	15.00	+ 2	50.20	5.79	+7	77	88
18	− 4	9	16.8	27.25	15.02	− 6	50.20	5.78	+8	78	88
19	− 9	+10	15.4	+27.38	+15.03	−15	50.20	−5.77	+7	78	88
20	−14	10	14.0	27.52	15.05	−22	50.20	5.77	+5	78	88
21	−16	10	12.6	27.66	15.06	−26	50.20	5.76	+2	78	88
22	−15	10	11.1	27.80	15.07	−25	50.19	5.75	−2	79	88
23	−12	10	9.5	27.93	15.08	−19	50.19	5.74	−6	79	88
24	− 6	+ 9	7.7	+28.07	+15.09	−10	50.19	−5.74	−8	79	87

Tag		0ʰ Welt-Zeit								
		Sternzeit Greenw.	t	f	log g	G	log h	H	log i	i
1938		ʰ	ˢ	ˢ		ʰ ᵐ		ʰ ᵐ		″
Juli	24	20.1	0.5585	+2.639	1.2584	1 13.7	1.3021	10 6.7	0.6156	+4.127
	25	20.1	0.5612	2.648	1.2596	1 13.4	1.3016	10 3.0	0.6277	4.243
	26	20.2	0.5640	2.657	1.2609	1 13.1	1.3010	9 59.4	0.6393	4.358
	27	20.3	0.5667	2.666	1.2621	1 12.7	1.3005	9 55.7	0.6505	4.472
	28	20.3	0.5694	2.674	1.2633	1 12.4	1.2999	9 52.0	0.6613	4.585
	29	20.4	0.5722	2.683	1.2645	1 12.0	1.2994	9 48.3	0.6718	4.697
	30	20.5	0.5749	+2.691	1.2657	1 11.7	1.2988	9 44.6	0.6819	+4.807
	31	20.5	0.5777	2.700	1.2668	1 11.4	1.2982	9 40.9	0.6916	4.916
Aug.	1	20.6	0.5804	2.708	1.2680	1 11.0	1.2976	9 37.2	0.7010	5.024
	2	20.7	0.5831	2.717	1.2691	1 10.7	1.2970	9 33.4	0.7101	5.130
	3	20.7	0.5859	2.725	1.2702	1 10.4	1.2964	9 29.6	0.7189	5.235
	4	20.8	0.5886	2.733	1.2714	1 10.0	1.2958	9 25.9	0.7275	5.339
	5	20.9	0.5913	+2.741	1.2724	1 9.7	1.2952	9 22.1	0.7357	+5.441
	6	20.9	0.5941	2.749	1.2735	1 9.4	1.2946	9 18.3	0.7436	5.541
	7	21.0	0.5968	2.757	1.2746	1 9.1	1.2940	9 14.5	0.7513	5.640
	8	21.1	0.5996	2.765	1.2756	1 8.8	1.2934	9 10.7	0.7588	5.738
	9	21.1	0.6023	2.773	1.2766	1 8.5	1.2927	9 6.9	0.7660	5.834
	10	21.2	0.6050	2.780	1.2777	1 8.2	1.2921	9 3.1	0.7729	5.928
	11	21.3	0.6078	+2.788	1.2787	1 7.8	1.2915	8 59.2	0.7797	+6.021
	12	21.3	0.6105	2.795	1.2796	1 7.5	1.2908	8 55.4	0.7862	6.112
	13	21.4	0.6132	2.803	1.2806	1 7.2	1.2902	8 51.5	0.7925	6.201
	14	21.5	0.6160	2.810	1.2816	1 7.0	1.2896	8 47.6	0.7986	6.289
	15	21.5	0.6187	2.817	1.2825	1 6.7	1.2890	8 43.7	0.8046	6.376
	16	21.6	0.6215	2.824	1.2835	1 6.4	1.2883	8 39.8	0.8102	6.460
	17	21.6	0.6242	+2.831	1.2844	1 6.1	1.2877	8 35.8	0.8157	+6.542
	18	21.7	0.6269	2.838	1.2853	1 5.8	1.2871	8 31.9	0.8210	6.623
	19	21.8	0.6297	2.845	1.2862	1 5.6	1.2865	8 28.0	0.8261	6.701
	20	21.8	0.6324	2.852	1.2871	1 5.3	1.2859	8 24.0	0.8311	6.778
	21	21.9	0.6351	2.859	1.2879	1 5.0	1.2853	8 20.0	0.8359	6.853
	22	22.0	0.6379	2.865	1.2888	1 4.8	1.2847	8 16.0	0.8405	6.926
	23	22.0	0.6406	+2.872	1.2897	1 4.5	1.2841	8 12.0	0.8449	+6.997
	24	22.1	0.6434	2.878	1.2905	1 4.3	1.2836	8 8.0	0.8492	7.066
	25	22.2	0.6461	2.885	1.2914	1 4.0	1.2830	8 4.0	0.8533	7.134
	26	22.2	0.6488	2.891	1.2922	1 3.8	1.2824	8 0.0	0.8573	7.199
	27	22.3	0.6516	2.897	1.2930	1 3.6	1.2819	7 55.9	0.8611	7.262
	28	22.4	0.6543	2.904	1.2938	1 3.4	1.2814	7 51.9	0.8647	7.323
	29	22.4	0.6570	+2.910	1.2946	1 3.2	1.2809	7 47.8	0.8682	+7.382
	30	22.5	0.6598	2.916	1.2954	1 2.9	1.2804	7 43.7	0.8715	7.439
	31	22.6	0.6625	2.922	1.2962	1 2.7	1.2799	7 39.6	0.8747	7.494
Sept.	1	22.6	0.6653	2.928	1.2970	1 2.5	1.2794	7 35.5	0.8778	7.547
	2	22.7	0.6680	2.933	1.2977	1 2.4	1.2789	7 31.4	0.8807	7.598
	3	22.8	0.6707	+2.939	1.2985	1 2.2	1.2785	7 27.3	0.8834	+7.646

Tag		0h Welt-Zeit										
		f′	g′	G′	Allgemeine Präzession seit 1938.0	Δψ	Δψ′	Mittlere Schiefe	Δε	Δε′	j	k
1938		in 0.001 (″)	in 0.01 (″)	h	″	″	in 0.01 (″)	23° 26′ ″	″	in 0.01 (″)	in 0.001	
Juli	24	− 6	+ 9	7.7	+28.07	+15.09	−10	50.19	−5.74	−8	79	87
	25	+ 1	8	5.7	28.21	15.10	+ 2	50.19	5.73	−8	79	87
	26	+ 8	8	3.4	28.35	15.11	+13	50.19	5.72	−6	80	87
	27	+12	8	1.2	28.49	15.12	+20	50.19	5.71	−3	80	87
	28	+14	9	23.5	28.62	15.12	+23	50.19	5.70	+1	80	87
	29	+13	10	21.8	28.76	15.13	+20	50.18	5.69	+5	80	87
	30	+ 9	+10	20.4	+28.90	+15.13	+14	50.18	−5.68	+8	80	87
	31	+ 4	8	19.1	29.04	15.13	+ 6	50.18	5.67	+8	81	87
Aug.	1	− 1	7	17.4	29.17	15.13	− 3	50.18	5.66	+7	81	87
	2	− 5	5	15.1	29.31	15.13	− 9	50.18	5.65	+4	81	86
	3	− 7	5	12.1	29.45	15.12	−12	50.18	5.63	0	81	86
	4	− 7	6	9.6	29.59	15.12	−11	50.18	5.62	−3	81	86
	5	− 4	+ 7	7.7	+29.72	+15.11	− 7	50.18	−5.61	−6	82	86
	6	− 1	8	6.5	29.86	15.11	− 2	50.17	5.60	−7	82	86
	7	+ 2	8	5.2	30.00	15.10	+ 4	50.17	5.59	−8	82	86
	8	+ 6	8	4.1	30.14	15.09	+ 9	50.17	5.58	−7	82	86
	9	+ 8	7	2.7	30.27	15.08	+13	50.17	5.57	−5	82	86
	10	+ 9	6	1.1	30.41	15.07	+15	50.17	5.56	−2	83	85
	11	+ 9	+ 6	23.0	+30.55	+15.05	+15	50.17	−5.54	+2	83	85
	12	+ 7	6	21.0	30.69	15.04	+11	50.17	5.53	+5	83	85
	13	+ 3	7	19.1	30.82	15.02	+ 5	50.17	5.52	+7	83	85
	14	− 2	8	17.5	30.96	15.00	− 3	50.16	5.51	+8	83	85
	15	− 7	9	16.0	31.10	14.98	−11	50.16	5.50	+8	84	85
	16	−12	10	14.5	31.24	14.96	−19	50.16	5.49	+6	84	85
	17	−14	+10	13.1	+31.38	+14.94	−24	50.16	−5.48	+3	84	85
	18	−15	10	11.6	31.51	14.91	−25	50.16	5.47	−1	84	85
	19	−13	10	10.0	31.65	14.89	−21	50.16	5.46	−5	84	84
	20	− 8	9	8.4	31.79	14.86	−13	50.16	5.45	−7	85	84
	21	− 2	8	6.5	31.92	14.83	− 3	50.16	5.44	−8	85	84
	22	+ 5	8	4.4	32.06	14.80	+ 8	50.15	5.43	−7	85	84
	23	+10	+ 8	2.1	+32.20	+14.77	+16	50.15	−5.42	−4	85	84
	24	+12	8	0.0	32.34	14.74	+20	50.15	5.41	0	85	84
	25	+12	9	22.2	32.48	14.71	+20	50.15	5.40	+4	85	84
	26	+ 9	9	20.7	32.61	14.67	+15	50.15	5.39	+7	85	84
	27	+ 4	9	19.3	32.75	14.64	+ 7	50.15	5.38	+8	86	84
	28	− 1	7	17.8	32.89	14.60	− 1	50.15	5.37	+7	86	83
	29	− 5	+ 6	15.8	+33.02	+14.57	− 8	50.15	−5.36	+5	86	83
	30	− 7	5	13.1	33.16	14.53	−12	50.14	5.36	+1	86	83
	31	− 7	5	10.5	33.30	14.49	−12	50.14	5.35	−2	86	83
Sept.	1	− 6	6	8.4	33.44	14.45	− 9	50.14	5.34	−5	86	83
	2	− 3	7	6.9	33.58	14.41	− 4	50.14	5.34	−7	87	83
	3	+ 1	+ 8	5.6	+33.71	+14.36	+ 2	50.14	−5.33	−8	87	83

Tag		0h Welt-Zeit							
	Sternzeit Greenw.	t	f	log g	G	log h	H	log i	i
1938									
	h	s	s		h m		h m		"
Sept. 3	22.8	0.6707	+2.939	1.2985	1 2.2	1.2785	7 27.3	0.8834	+7.646
4	22.8	0.6735	2.945	1.2993	1 2.0	1.2780	7 23.1	0.8860	7.692
5	22.9	0.6762	2.950	1.3000	1 1.8	1.2776	7 19.0	0.8886	7.737
6	23.0	0.6790	2.956	1.3007	1 1.7	1.2772	7 14.8	0.8909	7.779
7	23.0	0.6817	2.962	1.3015	1 1.5	1.2769	7 10.7	0.8932	7.819
8	23.1	0.6844	2.967	1.3022	1 1.4	1.2765	7 6.5	0.8952	7.856
9	23.2	0.6872	+2.973	1.3030	1 1.2	1.2762	7 2.3	0.8971	+7.891
10	23.2	0.6899	2.978	1.3037	1 1.1	1.2759	6 58.1	0.8989	7.924
11	23.3	0.6926	2.984	1.3044	1 1.0	1.2756	6 53.9	0.9006	7.955
12	23.4	0.6954	2.989	1.3051	1 0.9	1.2753	6 49.7	0.9022	7.984
13	23.4	0.6981	2.994	1.3058	1 0.8	1.2750	6 45.5	0.9037	8.011
14	23.5	0.7009	2.999	1.3066	1 0.7	1.2748	6 41.3	0.9050	8.035
15	23.6	0.7036	+3.005	1.3073	1 0.6	1.2746	6 37.0	0.9061	+8.056
16	23.6	0.7063	3.010	1.3080	1 0.5	1.2744	6 32.8	0.9072	8.076
17	23.7	0.7091	3.015	1.3087	1 0.4	1.2742	6 28.6	0.9081	8.093
18	23.8	0.7118	3.020	1.3094	1 0.3	1.2741	6 24.3	0.9089	8.107
19	23.8	0.7145	3.026	1.3101	1 0.3	1.2739	6 20.1	0.9095	8.119
20	23.9	0.7173	3.031	1.3108	1 0.2	1.2738	6 15.8	0.9100	8.129
21	23.9	0.7200	+3.036	1.3115	1 0.2	1.2738	6 11.6	0.9105	+8.137
22	0.0	0.7228	3.041	1.3122	1 0.1	1.2737	6 7.3	0.9107	8.142
23	0.1	0.7255	3.046	1.3129	1 0.1	1.2737	6 3.0	0.9109	8.145
24	0.1	0.7282	3.051	1.3137	1 0.1	1.2737	5 58.8	0.9109	8.146
25	0.2	0.7310	3.056	1.3144	1 0.1	1.2737	5 54.5	0.9108	8.144
26	0.3	0.7337	3.061	1.3151	1 0.0	1.2737	5 50.2	0.9106	8.139
27	0.3	0.7364	+3.066	1.3158	1 0.0	1.2738	5 45.9	0.9102	+8.132
28	0.4	0.7392	3.071	1.3165	1 0.0	1.2739	5 41.6	0.9097	8.123
29	0.5	0.7419	3.076	1.3172	1 0.0	1.2740	5 37.4	0.9091	8.112
30	0.5	0.7447	3.082	1.3180	1 0.0	1.2742	5 33.1	0.9084	8.098
Okt. 1	0.6	0.7474	3.087	1.3187	1 0.1	1.2743	5 28.8	0.9075	8.082
2	0.7	0.7501	3.092	1.3194	1 0.1	1.2745	5 24.6	0.9065	8.063
3	0.7	0.7529	+3.097	1.3202	1 0.1	1.2747	5 20.3	0.9054	+8.042
4	0.8	0.7556	3.102	1.3210	1 0.2	1.2749	5 16.0	0.9041	8.019
5	0.9	0.7584	3.108	1.3217	1 0.2	1.2752	5 11.7	0.9027	7.993
6	0.9	0.7611	3.113	1.3225	1 0.2	1.2755	5 7.5	0.9012	7.965
7	1.0	0.7638	3.118	1.3233	1 0.3	1.2758	5 3.2	0.8996	7.935
8	1.1	0.7666	3.124	1.3241	1 0.4	1.2761	4 58.9	0.8977	7.902
9	1.1	0.7693	+3.129	1.3248	1 0.4	1.2764	4 54.7	0.8958	+7.867
10	1.2	0.7720	3.135	1.3256	1 0.5	1.2768	4 50.4	0.8937	7.829
11	1.3	0.7748	3.140	1.3264	1 0.6	1.2771	4 46.2	0.8915	7.789
12	1.3	0.7775	3.146	1.3272	1 0.7	1.2775	4 42.0	0.8891	7.747
13	1.4	0.7803	3.151	1.3281	1 0.7	1.2780	4 37.7	0.8866	7.702
14	1.5	0.7830	+3.157	1.3289	1 0.8	1.2784	4 33.5	0.8840	+7.655

Tag	0ʰ Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1938.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1938	ˢ in 0.001	″ in 0.01	ʰ	″	″	″ in 0.01	23° 26′ ″	″	″ in 0.01	in 0.001	
Sept. 3	+ 1	+8	5.6	+33.71	+14.36	+ 2	50.14	−5.33	−8	87	83
4	+ 5	8	4.4	33.85	14.32	+ 8	50.14	5.33	−7	87	83
5	+ 8	7	3.1	33.99	14.27	+13	50.14	5.32	−5	87	83
6	+10	7	1.5	34.13	14.23	+16	50.13	5.32	−2	87	83
7	+10	6	23.6	34.27	14.18	+16	50.13	5.31	+1	87	82
8	+ 8	6	21.7	34.40	14.13	+13	50.13	5.31	+4	87	82
9	+ 5	+7	19.8	+34.54	+14.08	+ 8	50.13	−5.31	+6	88	82
10	0	8	18.1	34.68	14.03	0	50.13	5.31	+8	88	82
11	− 5	9	16.6	34.81	13.98	− 8	50.13	5.30	+8	88	82
12	−10	9	15.1	34.95	13.93	−16	50.13	5.30	+6	88	82
13	−13	9	13.7	35.09	13.88	−21	50.13	5.30	+4	88	82
14	−14	9	12.0	35.23	13.83	−23	50.12	5.30	0	88	82
15	−13	+9	10.4	+35.37	+13.78	−21	50.12	−5.30	−4	88	82
16	− 9	9	8.7	35.50	13.73	−14	50.12	5.30	−7	89	82
17	− 3	8	7.0	35.64	13.68	− 5	50.12	5.31	−8	89	82
18	+ 3	8	5.0	35.78	13.62	+ 5	50.12	5.31	−7	89	82
19	+ 8	7	2.8	35.91	13.57	+14	50.12	5.31	−5	89	82
20	+11	8	0.7	36.05	13.52	+19	50.12	5.32	−1	89	82
21	+12	+8	22.7	+36.19	+13.46	+19	50.12	−5.32	+3	89	82
22	+10	9	21.1	36.33	13.41	+15	50.11	5.33	+6	90	82
23	+ 5	8	19.6	36.47	13.35	+ 8	50.11	5.33	+8	90	82
24	0	8	18.1	36.60	13.30	0	50.11	5.34	+8	90	82
25	− 4	6	16.3	36.74	13.24	− 7	50.11	5.34	+6	90	82
26	− 7	5	14.1	36.88	13.19	−12	50.11	5.35	+3	90	82
27	− 8	+5	11.4	+37.02	+13.13	−14	50.11	−5.36	−1	90	82
28	− 7	6	9.2	37.16	13.08	−12	50.11	5.37	−4	90	82
29	− 4	7	7.5	37.29	13.03	− 7	50.11	5.38	−7	91	82
30	0	8	6.1	37.43	12.97	− 1	50.10	5.39	−8	91	82
Okt. 1	+ 4	8	4.9	37.57	12.92	+ 6	50.10	5.40	−8	91	82
2	+ 7	8	3.6	37.70	12.87	+11	50.10	5.41	−6	91	82
3	+ 9	+7	2.1	+37.84	+12.81	+15	50.10	−5.42	−4	91	82
4	+10	6	0.2	37.98	12.76	+16	50.10	5.44	0	91	82
5	+ 9	6	22.3	38.12	12.71	+14	50.10	5.45	+3	92	82
6	+ 6	7	20.3	38.26	12.66	+10	50.10	5.46	+6	92	82
7	+ 2	8	18.6	38.39	12.61	+ 3	50.10	5.48	+8	92	82
8	− 3	9	17.0	38.53	12.56	− 5	50.09	5.49	+8	92	82
9	− 8	+9	15.6	+38.67	+12.51	−13	50.09	−5.51	+7	92	82
10	−12	9	14.1	38.80	12.46	−19	50.09	5.53	+5	92	83
11	−14	9	12.6	38.94	12.41	−22	50.09	5.54	+1	93	83
12	−13	9	10.9	39.08	12.37	−21	50.09	5.56	−3	93	83
13	−10	8	9.1	39.22	12.32	−16	50.09	5.58	−6	93	83
14	− 4	+8	7.3	+39.36	+12.28	− 7	50.09	−5.60	−8	93	83

Tag	0h Welt-Zeit								
	Stern-zeit Greenw.	t	f	log g	G	log h	H	log i	i
1938									
	h	s	s		h m		h m		"
Okt. 14	1.5	0.7830	+3.157	1.3289	1 0.8	1.2784	4 33.5	0.8840	+7.655
15	1.5	0.7857	3.163	1.3297	1 0.9	1.2788	4 29.3	0.8812	7.606
16	1.6	0.7885	3.168	1.3306	1 1.0	1.2793	4 25.0	0.8782	7.554
17	1.7	0.7912	3.174	1.3314	1 1.1	1.2798	4 20.8	0.8751	7.500
18	1.7	0.7939	3.180	1.3323	1 1.2	1.2803	4 16.6	0.8718	7.444
19	1.8	0.7967	3.186	1.3332	1 1.3	1.2808	4 12.4	0.8684	7.386
20	1.9	0.7994	+3.193	1.3341	1 1.4	1.2814	4 8.2	0.8648	+7.325
21	1.9	0.8022	3.199	1.3350	1 1.6	1.2819	4 4.1	0.8611	7.262
22	2.0	0.8049	3.205	1.3359	1 1.7	1.2825	3 59.9	0.8572	7.197
23	2.1	0.8076	3.211	1.3368	1 1.8	1.2830	3 55.7	0.8530	7.129
24	2.1	0.8104	3.217	1.3377	1 1.9	1.2836	3 51.6	0.8487	7.059
25	2.2	0.8131	3.224	1.3386	1 2.0	1.2842	3 47.4	0.8444	6.988
26	2.2	0.8158	+3.230	1.3396	1 2.1	1.2848	3 43.3	0.8397	+6.914
27	2.3	0.8186	3.237	1.3405	1 2.3	1.2854	3 39.2	0.8349	6.838
28	2.4	0.8213	3.244	1.3415	1 2.4	1.2860	3 35.0	0.8299	6.759
29	2.4	0.8241	3.250	1.3425	1 2.5	1.2867	3 30.9	0.8247	6.679
30	2.5	0.8268	3.257	1.3434	1 2.6	1.2873	3 26.8	0.8194	6.597
31	2.6	0.8295	3.264	1.3444	1 2.8	1.2879	3 22.8	0.8138	6.513
Nov. 1	2.6	0.8323	+3.272	1.3455	1 2.9	1.2886	3 18.7	0.8079	+6.426
2	2.7	0.8350	3.279	1.3465	1 3.0	1.2892	3 14.6	0.8020	6.338
3	2.8	0.8378	3.286	1.3475	1 3.1	1.2899	3 10.6	0.7957	6.248
4	2.8	0.8405	3.293	1.3486	1 3.2	1.2905	3 6.5	0.7893	6.156
5	2.9	0.8432	3.301	1.3496	1 3.4	1.2912	3 2.5	0.7825	6.061
6	3.0	0.8460	3.308	1.3507	1 3.5	1.2919	2 58.4	0.7756	5.965
7	3.0	0.8487	+3.316	1.3518	1 3.6	1.2925	2 54.4	0.7684	+5.867
8	3.1	0.8514	3.324	1.3528	1 3.7	1.2932	2 50.4	0.7610	5.767
9	3.2	0.8542	3.332	1.3539	1 3.8	1.2938	2 46.4	0.7532	5.665
10	3.2	0.8569	3.340	1.3550	1 3.9	1.2945	2 42.4	0.7452	5.561
11	3.3	0.8597	3.348	1.3561	1 4.0	1.2951	2 38.4	0.7369	5.456
12	3.4	0.8624	3.356	1.3572	1 4.1	1.2958	2 34.5	0.7283	5.349
13	3.4	0.8651	+3.364	1.3584	1 4.2	1.2964	2 30.5	0.7193	+5.240
14	3.5	0.8679	3.372	1.3595	1 4.3	1.2970	2 26.6	0.7101	5.130
15	3.6	0.8706	3.381	1.3606	1 4.4	1.2977	2 22.6	0.7005	5.018
16	3.6	0.8733	3.390	1.3618	1 4.5	1.2983	2 18.7	0.6906	4.904
17	3.7	0.8761	3.398	1.3629	1 4.6	1.2989	2 14.8	0.6802	4.789
18	3.8	0.8788	3.407	1.3641	1 4.7	1.2995	2 10.9	0.6695	4.672
19	3.8	0.8816	+3.416	1.3653	1 4.8	1.3001	2 7.0	0.6584	+4.554
20	3.9	0.8843	3.425	1.3665	1 4.9	1.3007	2 3.1	0.6468	4.434
21	4.0	0.8870	3.434	1.3677	1 4.9	1.3013	1 59.2	0.6348	4.313
22	4.0	0.8898	3.443	1.3688	1 5.0	1.3018	1 55.3	0.6223	4.191
23	4.1	0.8925	3.452	1.3700	1 5.1	1.3024	1 51.5	0.6093	4.067
24	4.2	0.8952	+3.461	1.3712	1 5.1	1.3029	1 47.6	0.5957	+3.942

Tag	0ʰ Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1938.0	$\varDelta\psi$	$\varDelta\psi'$	Mittlere Schiefe	$\varDelta\varepsilon$	$\varDelta\varepsilon'$	j	k
1938	in 0ˢ.001	in 0″.01				in 0″.01	23° 26′		in 0″.01	in 0.001	
Okt. 14	− 4	+8	7ʰ.3	+39″.36	+12″.28	− 7	50″.09	−5″.60	−8	93	83
15	+ 2	8	5.3	39.49	12.23	+ 4	50.08	5.62	−8	93	83
16	+ 8	8	3.3	39.63	12.19	+13	50.08	5.64	−6	93	83
17	+11	8	1.2	39.77	12.15	+19	50.08	5.66	−2	94	83
18	+12	8	23.3	39.91	12.11	+20	50.08	5.68	+1	94	83
19	+11	9	21.7	40.05	12.07	+18	50.08	5.70	+5	94	83
20	+ 7	+9	20.1	+40.18	+12.03	+11	50.08	−5.72	+7	94	83
21	+ 2	8	18.5	40.32	11.99	+ 3	50.08	5.74	+8	94	84
22	− 3	7	16.8	40.46	11.96	− 5	50.08	5.76	+6	95	84
23	− 7	6	14.7	40.59	11.92	−11	50.07	5.79	+4	95	84
24	− 8	6	12.2	40.73	11.89	−14	50.07	5.81	0	95	84
25	− 8	6	10.0	40.87	11.86	−13	50.07	5.83	−3	95	84
26	− 6	+7	8.1	+41.01	+11.83	− 9	50.07	−5.86	−6	95	84
27	− 2	8	6.7	41.15	11.80	− 4	50.07	5.88	−7	96	84
28	+ 2	8	5.4	41.28	11.77	+ 3	50.07	5.91	−8	96	84
29	+ 5	8	4.2	41.42	11.74	+ 9	50.07	5.93	−7	96	84
30	+ 8	7	2.8	41.56	11.72	+13	50.07	5.96	−5	96	85
31	+ 9	6	1.1	41.69	11.69	+15	50.06	5.98	−2	96	85
Nov. 1	+ 9	+6	23.0	+41.83	+11.67	+15	50.06	−6.01	+2	97	85
2	+ 7	7	20.9	41.97	11.65	+11	50.06	6.03	+5	97	85
3	+ 3	7	19.0	42.11	11.63	+ 5	50.06	6.06	+7	97	85
4	− 2	8	17.5	42.25	11.62	− 3	50.06	6.08	+8	97	85
5	− 7	9	16.0	42.38	11.60	−12	50.06	6.11	+8	98	85
6	−11	9	14.5	42.52	11.59	−19	50.06	6.14	+6	98	85
7	−14	+9	13.1	+42.66	+11.58	−23	50.06	−6.16	+3	98	86
8	−14	9	11.5	42.80	11.57	−23	50.05	6.19	−1	98	86
9	−11	9	9.8	42.94	11.56	−18	50.05	6.21	−5	99	86
10	− 6	8	7.8	43.07	11.55	−10	50.05	6.24	−7	99	86
11	+ 1	8	5.8	43.21	11.54	+ 1	50.05	6.27	−8	99	86
12	+ 7	8	3.8	43.35	11.54	+11	50.05	6.29	−7	99	86
13	+11	+8	1.8	+43.48	+11.53	+18	50.05	−6.32	−4	100	86
14	+13	9	23.9	43.62	11.53	+22	50.05	6.34	0	100	86
15	+12	9	22.3	43.76	11.53	+20	50.05	6.37	+4	100	87
16	+ 9	9	20.8	43.90	11.54	+15	50.04	6.40	+7	100	87
17	+ 4	8	19.2	44.04	11.54	+ 6	50.04	6.42	+8	101	87
18	− 1	7	17.6	44.17	11.55	− 2	50.04	6.45	+7	101	87
19	− 5	+6	15.5	+44.31	+11.55	− 9	50.04	−6.47	+5	101	87
20	− 8	5	13.0	44.45	11.56	−13	50.04	6.50	+1	101	87
21	− 8	6	10.5	44.59	11.57	−13	50.04	6.52	−2	102	87
22	− 6	6	8.6	44.73	11.58	−10	50.04	6.55	−5	102	87
23	− 3	7	7.2	44.86	11.60	− 5	50.03	6.57	−7	102	88
24	0	+8	5.9	+45.00	+11.61	+ 1	50.03	−6.59	−8	103	88

Tag	0h Welt-Zeit Sternzeit Greenw.	t	f	log g	G	log h	H	log i	i
1938	h	a	s		h m		h m		″
Nov. 24	4.2	0.8952	+3.461	1.3712	1 5.1	1.3029	1 47.6	0.5957	+3.942
25	4.2	0.8980	3.471	1.3724	1 5.2	1.3034	1 43.7	0.5815	3.815
26	4.3	0.9007	3.480	1.3736	1 5.2	1.3040	1 39.9	0.5667	3.687
27	4.3	0.9035	3.490	1.3748	1 5.2	1.3045	1 36.1	0.5513	3.559
28	4.4	0.9062	3.499	1.3760	1 5.3	1.3049	1 32.2	0.5352	3.429
29	4.5	0.9089	3.509	1.3773	1 5.3	1.3054	1 28.4	0.5181	3.297
30	4.6	0.9117	+3.519	1.3785	1 5.3	1.3059	1 24.6	0.5004	+3.165
Dez. 1	4.6	0.9144	3.528	1.3797	1 5.3	1.3063	1 20.8	0.4817	3.032
2	4.7	0.9171	3.538	1.3809	1 5.3	1.3067	1 17.0	0.4621	2.898
3	4.7	0.9199	3.548	1.3822	1 5.3	1.3071	1 13.2	0.4412	2.762
4	4.8	0.9226	3.558	1.3834	1 5.3	1.3075	1 9.4	0.4193	2.626
5	4.9	0.9254	3.568	1.3846	1 5.3	1.3079	1 5.6	0.3960	2.489
6	4.9	0.9281	+3.579	1.3858	1 5.3	1.3082	1 1.8	0.3712	+2.351
7	5.0	0.9308	3.589	1.3871	1 5.3	1.3086	0 58.1	0.3450	2.213
8	5.1	0.9336	3.599	1.3883	1 5.3	1.3089	0 54.3	0.3166	2.073
9	5.1	0.9363	3.610	1.3895	1 5.2	1.3092	0 50.6	0.2862	1.933
10	5.2	0.9391	3.620	1.3907	1 5.2	1.3094	0 46.8	0.2536	1.793
11	5.3	0.9418	3.630	1.3919	1 5.2	1.3097	0 43.0	0.2180	1.652
12	5.3	0.9445	+3.641	1.3932	1 5.1	1.3099	0 39.3	0.1790	+1.510
13	5.4	0.9473	3.651	1.3944	1 5.0	1.3102	0 35.5	0.1358	1.367
14	5.5	0.9500	3.662	1.3956	1 5.0	1.3103	0 31.8	0.0878	1.224
15	5.5	0.9527	3.672	1.3968	1 4.9	1.3105	0 28.0	0.0338	1.081
16	5.6	0.9555	3.683	1.3980	1 4.8	1.3107	0 24.3	9.9722	0.938
17	5.7	0.9582	3.694	1.3992	1 4.8	1.3108	0 20.6	9.8998	0.794
18	5.7	0.9610	+3.704	1.4004	1 4.7	1.3109	0 16.8	9.8129	+0.650
19	5.8	0.9637	3.715	1.4016	1 4.6	1.3110	0 13.1	9.7042	0.506
20	5.9	0.9664	3.726	1.4028	1 4.5	1.3111	0 9.3	9.5575	0.361
21	5.9	0.9692	3.736	1.4040	1 4.4	1.3111	0 5.6	9.3344	0.216
22	6.0	0.9719	3.747	1.4052	1 4.2	1.3111	0 1.8	8.8513	+0.071
23	6.1	0.9746	3.758	1.4064	1 4.1	1.3111	23 58.1	8.8633n	−0.073
24	6.1	0.9774	+3.768	1.4075	1 4.0	1.3111	23 54.4	9.3385n	−0.218
25	6.2	0.9801	3.779	1.4087	1 3.9	1.3110	23 50.6	9.5599n	0.363
26	6.3	0.9829	3.790	1.4098	1 3.7	1.3110	23 46.9	9.7059n	0.508
27	6.3	0.9856	3.800	1.4110	1 3.6	1.3109	23 43.2	9.8142n	0.652
28	6.4	0.9883	3.811	1.4121	1 3.5	1.3108	23 39.4	9.9009n	0.796
29	6.5	0.9911	3.822	1.4132	1 3.3	1.3107	23 35.7	9.9731n	0.940
30	6.5	0.9938	+3.832	1.4144	1 3.2	1.3105	23 31.9	0.0350n	−1.084
31	6.6	0.9965	3.843	1.4155	1 3.0	1.3103	23 28.2	0.0892n	1.228
32	6.6	0.9993	+3.853	1.4166	1 2.8	1.3101	23 24.4	0.1370n	−1.371

Tag	0h Welt-Zeit										
	f′	*g′*	*G′*	Allgemeine Präzession seit 1938.0	*Δψ*	*Δψ′*	Mittlere Schiefe	*Δε*	*Δε′*	*j*	*k*
1938	s in 0.001	" in 0.01				" in 0.01	23°26′		" in 0.01	in 0.001	
Nov. 24	0	+ 8	h 5.9	+45.00"	+11.61"	+ 1	50.03"	−6.59"	−8	103	88
25	+ 4	8	4.6	45.14	11.63	+ 7	50.03	6.62	−7	103	88
26	+ 7	7	3.2	45.27	11.64	+12	50.03	6.64	−5	103	88
27	+ 9	6	1.7	45.41	11.66	+15	50.03	6.66	−3	103	88
28	+ 9	6	23.7	45.55	11.68	+15	50.03	6.68	0	104	88
29	+ 7	6	21.6	45.69	11.70	+12	50.03	6.70	+3	104	88
30	+ 4	+ 7	19.6	+45.83	+11.72	+ 7	50.03	−6.72	+6	104	88
Dez. 1	− 1	8	17.9	45.96	11.75	− 1	50.02	6.74	+8	105	88
2	− 6	9	16.3	46.10	11.77	−10	50.02	6.76	+8	105	88
3	−11	10	14.9	46.24	11.80	−18	50.02	6.78	+7	105	88
4	−14	10	13.5	46.37	11.82	−23	50.02	6.80	+4	105	89
5	−15	10	12.0	46.51	11.85	−25	50.02	6.82	0	106	89
6	−13	+10	10.4	+46.65	+11.88	−22	50.02	−6.84	−4	106	89
7	− 9	9	8.7	46.79	11.91	−14	50.02	6.86	−7	106	89
8	− 2	8	6.7	46.93	11.94	− 4	50.02	6.87	−8	107	89
9	+ 5	8	4.6	47.06	11.97	+ 7	50.01	6.89	−7	107	89
10	+10	8	2.4	47.20	12.00	+17	50.01	6.90	−5	107	89
11	+13	9	0.5	47.34	12.04	+22	50.01	6.92	−1	108	89
12	+14	+ 9	22.8	+47.48	+12.07	+22	50.01	−6.93	+3	108	89
13	+11	9	21.3	47.62	12.10	+18	50.01	6.95	+6	108	89
14	+ 6	9	19.9	47.75	12.14	+11	50.01	6.96	+8	108	89
15	+ 1	7	18.4	47.89	12.17	+ 2	50.01	6.97	+7	109	89
16	− 4	6	16.5	48.03	12.21	− 6	50.01	6.98	+5	109	89
17	− 7	5	13.9	48.16	12.25	−11	50.00	6.99	+2	109	89
18	− 8	+ 5	11.1	+48.30	+12.28	−12	50.00	−7.00	−1	110	89
19	− 6	6	8.9	48.44	12.32	−10	50.00	7.01	−4	110	89
20	− 3	7	7.3	48.58	12.36	− 6	50.00	7.02	−6	110	89
21	0	8	6.1	48.72	12.39	0	50.00	7.03	−7	111	89
22	+ 4	8	4.8	48.85	12.43	+ 6	50.00	7.04	−7	111	89
23	+ 7	7	3.6	48.99	12.47	+11	50.00	7.04	−6	111	89
24	+ 9	+ 7	2.2	+49.13	+12.51	+14	49.99	−7.05	−4	111	89
25	+ 9	6	0.5	49.26	12.54	+15	49.99	7.05	−1	112	89
26	+ 8	6	22.3	49.40	12.58	+13	49.99	7.06	+2	112	89
27	+ 5	6	20.3	49.54	12.62	+ 9	49.99	7.06	+5	112	89
28	+ 1	7	18.4	49.68	12.65	+ 2	49.99	7.06	+7	113	89
29	− 4	8	16.8	49.82	12.69	− 7	49.99	7.07	+8	113	89
30	−10	+10	15.3	+49.95	+12.72	−16	49.99	−7.07	+7	113	89
31	−14	10	13.9	50.09	12.76	−23	49.99	7.07	+5	114	89
32	−16	+10	12.6	+50.23	+12.79	−26	49.98	−7.07	+2	114	89

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Welt-Zeit		t	A	Δ	A'	B	Δ	B'	C	Δ	D	Δ
1938		s			in 0.00001	"		in 0.001	"		"	
Jan.	0.224	−0.0022	+0.31711	351	− 32	+4.486	1	+75	− 2.980	329	+20.211	61
	1.222	+0.0006	0.32062	349	+ 81	4.487	0	+71	3.309	328	20.150	67
	2.219	0.0033	0.32411	348	+177	4.487	0	+53	3.637	327	20.083	73
	3.216	0.0060	0.32759	347	+242	4.487	0	+26	3.964	325	20.010	80
	4.213	0.0088	0.33106	346	+262	4.487	1	− 6	4.289	323	19.930	86
	5.211	0.0115	0.33452	344	+222	4.486	2	−41	4.612	322	19.844	93
	6.208	0.0142	+0.33796	343	+113	+4.484	3	−69	− 4.934	320	+19.751	99
	7.205	0.0169	0.34139	341	− 44	4.481	3	−86	5.254	319	19.652	104
	8.203	0.0197	0.34480	339	−222	4.478	4	−86	5.573	317	19.548	111
	9.200	0.0224	0.34819	336	−384	4.474	4	−68	5.890	316	19.437	117
	10.197	0.0251	0.35155	334	−495	4.470	4	−34	6.206	314	19.320	123
	11.194	0.0279	0.35489	333	−510	4.466	5	+ 9	6.520	311	19.197	129
	12.192	0.0306	+0.35822	331	−425	+4.461	6	+49	− 6.831	309	+19.068	135
	13.189	0.0333	0.36153	328	−250	4.455	6	+78	7.140	308	18.933	141
	14.186	0.0361	0.36481	326	− 21	4.449	7	+89	7.448	304	18.792	147
	15.183	0.0388	0.36807	323	+212	4.442	7	+77	7.752	302	18.645	153
	16.181	0.0415	0.37130	321	+395	4.435	8	+47	8.054	299	18.492	158
	17.178	0.0442	0.37451	318	+490	4.427	8	+ 6	8.353	297	18.334	164
	18.175	0.0470	+0.37769	315	+482	+4.419	9	−36	− 8.650	294	+18.170	170
	19.173	0.0497	0.38084	313	+379	4.410	9	−67	8.944	291	18.000	175
	20.170	0.0524	0.38397	310	+219	4.401	10	−82	9.235	288	17.825	181
	21.167	0.0552	0.38707	307	+ 40	4.391	10	−77	9.523	285	17.644	187
	22.164	0.0579	0.39014	305	−119	4.381	10	−56	9.808	282	17.457	192
	23.162	0.0606	0.39319	301	−223	4.371	10	−26	10.090	279	17.265	198
	24.159	0.0634	+0.39620	298	−261	+4.361	11	+11	−10.369	276	+17.067	203
	25.156	0.0661	0.39918	295	−241	4.350	11	+41	10.645	272	16.864	208
	26.153	0.0688	0.40213	292	−165	4.339	11	+66	10.917	268	16.656	213
	27.151	0.0716	0.40505	288	− 68	4.328	11	+77	11.185	265	16.443	218
	28.148	0.0743	0.40793	286	+ 59	4.317	11	+75	11.450	261	16.225	223
	29.145	0.0770	0.41079	282	+167	4.306	12	+62	11.711	257	16.002	228
	30.142	0.0797	+0.41361	279	+247	+4.294	12	+38	−11.968	254	+15.774	233
	31.140	0.0825	0.41640	277	+282	4.282	12	+ 5	12.222	250	15.541	237
Febr.	1.137	0.0852	0.41917	273	+261	4.270	12	−29	12.472	246	15.304	243
	2.134	0.0879	0.42190	270	+178	4.258	13	−59	12.718	242	15.061	247
	3.132	0.0907	0.42460	267	+ 44	4.245	12	−80	12.960	238	14.814	252
	4.129	0.0934	0.42727	262	−126	4.233	12	−86	13.198	234	14.562	256
	5.126	0.0961	+0.42989	259	−297	+4.221	12	−74	−13.432	229	+14.306	260
	6.123	0.0989	0.43248	257	−427	4.209	12	−47	13.661	226	14.046	265
	7.121	0.1016	0.43505	254	−486	4.197	12	− 9	13.887	221	13.781	269
	8.118	0.1043	0.43759	250	−450	4.185	12	+33	14.108	216	13.512	273
	9.115	0.1070	0.44009	247	−320	4.173	12	+68	14.324	212	13.239	277
	10.112	0.1098	+0.44256		−124	+4.161		+84	−14.536		+12.962	

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Welt-Zeit	t	A		A′	B		B′	C		D	
1938	s			in 0.00001	"		in 0.001	"		"	
Febr. 10.112	0.1098	+0.44256	243	−124	+4.161	12	+84	−14.536	207	+12.962	281
11.110	0.1125	0.44499	240	+ 97	4.149	12	+84	14.743	202	12.681	285
12.107	0.1152	0.44739	237	+295	4.137	11	+60	14.945	198	12.396	289
13.104	0.1180	0.44976	234	+420	4.126	11	+24	15.143	193	12.107	292
14.102	0.1207	0.45210	231	+454	4.115	11	−17	15.336	188	11.815	296
15.099	0.1234	0.45441	228	+393	4.104	11	−54	15.524	183	11.519	299
16.096	0.1262	+0.45669	226	+262	+4.093	11	−75	−15.707	179	+11.220	303
17.093	0.1289	0.45895	222	+ 92	4.082	10	−80	15.886	174	10.917	306
18.091	0.1316	0.46117	219	− 76	4.072	9	−68	16.060	168	10.611	309
19.088	0.1344	0.46336	216	−199	4.063	9	−41	16.228	164	10.302	312
20.085	0.1371	0.46552	213	−265	4.054	9	− 6	16.392	158	9.990	315
21.082	0.1398	0.46765	210	−265	4.045	9	+29	16.550	153	9.675	318
22.080	0.1425	+0.46975	208	−205	+4.036	9	+58	−16.703	148	+ 9.357	320
23.077	0.1453	0.47183	205	−106	4.027	8	+74	16.851	143	9.037	323
24.074	0.1480	0.47388	203	+ 14	4.019	8	+79	16.994	137	8.714	325
25.071	0.1507	0.47591	201	+133	4.011	7	+71	17.131	132	8.389	328
26.069	0.1535	0.47792	198	+228	4.004	6	+48	17.263	126	8.061	330
27.066	0.1562	0.47990	196	+285	3.998	6	+17	17.389	121	7.731	332
28.063	0.1589	+0.48186	195	+287	+3.992	5	−16	−17.510	115	+ 7.399	335
März 1.061	0.1617	0.48381	192	+228	3.987	5	−49	17.625	110	7.064	337
2.058	0.1644	0.48573	190	+112	3.982	5	−74	17.735	106	6.727	338
3.055	0.1671	0.48763	187	− 46	3.977	4	−86	17.841	100	6.389	341
4.052	0.1698	0.48950	185	−216	3.973	3	−82	17.941	94	6.048	342
5.050	0.1726	0.49135	184	−359	3.970	3	−60	18.035	89	5.706	344
6.047	0.1753	+0.49319	183	−445	+3.967	2	−23	−18.124	83	+ 5.362	345
7.044	0.1780	0.49502	182	−442	3.965	1	+16	18.207	77	5.017	347
8.041	0.1808	0.49684	180	−348	3.964	1	+54	18.284	72	4.670	348
9.039	0.1835	0.49864	178	−179	3.963	0	+78	18.356	66	4.322	349
10.036	0.1862	0.50042	177	+ 27	3.963	0	+85	18.422	61	3.973	349
11.033	0.1890	0.50219	176	+226	3.963	1	+70	18.483	55	3.624	350
12.031	0.1917	+0.50395	174	+373	+3.964	1	+37	−18.538	49	+ 3.274	351
13.028	0.1944	0.50569	174	+436	3.965	2	− 1	18.587	44	2.923	352
14.025	0.1972	0.50743	173	+404	3.967	2	−39	18.631	38	2.571	352
15.022	0.1999	0.50916	172	+296	3.969	3	−68	18.669	33	2.219	353
16.020	0.2026	0.51088	172	+137	3.972	5	−78	18.702	27	1.866	354
17.017	0.2053	0.51260	171	− 27	3.977	5	−71	18.729	22	1.512	354
18.014	0.2081	+0.51431	171	−173	+3.982	5	−51	−18.751	15	+ 1.158	354
19.011	0.2108	0.51602	171	−257	3.987	6	−20	18.766	9	0.804	354
20.009	0.2135	0.51773	170	−284	3.993	7	+14	18.775	4	0.450	353
21.006	0.2163	0.51943	170	−246	4.000	8	+45	18.779	−1	+ 0.097	354
22.003	0.2190	0.52113	170	−163	4.008	8	+69	18.778	7	− 0.257	353
23.000	0.2217	+0.52283		− 48	+4.016		+78	−18.771		− 0.610	

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Welt-Zeit	t	A		A′	B		B′	C		D	
1938	h			in 0.00001	″		in 0.″001	″		″	
März 23.000	0.2217	+0.52283	170	− 48	+4.016	9	+78	−18.771	12	− 0.610	353
23.998	0.2245	0.52453	171	+ 75	4.025	9	+74	18.759	18	0.963	353
24.995	0.2272	0.52624	171	+186	4.034	10	+61	18.741	24	1.316	352
25.992	0.2299	0.52795	172	+261	4.044	11	+32	18.717	29	1.668	352
26.990	0.2326	0.52967	172	+287	4.055	12	0	18.688	35	2.020	351
27.987	0.2354	0.53139	173	+254	4.067	12	−36	18.653	40	2.371	349
28.984	0.2381	+0.53312	173	+158	+4.079	13	−66	−18.613	45	− 2.720	348
29.981	0.2408	0.53485	174	+ 14	4.092	13	−82	18.568	51	3.068	348
30.979	0.2436	0.53659	175	−154	4.105	14	−85	18.517	57	3.416	346
31.976	0.2463	0.53834	176	−308	4.119	14	−71	18.460	62	3.762	345
April 1.973	0.2490	0.54010	177	−417	4.133	15	−39	18.398	68	4.107	343
2.970	0.2518	0.54187	178	−440	4.148	15	+ 1	18.330	72	4.450	342
3.968	0.2545	+0.54365	180	−373	+4.163	16	+42	−18.258	78	− 4.792	340
4.965	0.2572	0.54545	181	−223	4.179	17	+72	18.180	84	5.132	339
5.962	0.2600	0.54726	183	− 21	4.196	18	+85	18.096	88	5.471	337
6.960	0.2627	0.54909	184	+186	4.214	18	+77	18.008	94	5.808	336
7.957	0.2654	0.55093	186	+351	4.232	18	+50	17.914	99	6.144	333
8.954	0.2681	0.55279	188	+443	4.250	19	+13	17.815	104	6.477	331
9.951	0.2709	+0.55467	190	+437	+4.269	19	−25	−17.711	109	− 6.808	329
10.949	0.2736	0.55657	191	+350	4.288	20	−58	17.602	114	7.137	326
11.946	0.2763	0.55848	193	+203	4.308	20	−75	17.488	119	7.463	324
12.943	0.2791	0.56041	196	+ 28	4.328	21	−75	17.369	125	7.787	322
13.940	0.2818	0.56237	198	−125	4.349	21	−60	17.244	130	8.109	319
14.938	0.2845	0.56435	199	−235	4.370	22	−32	17.114	134	8.428	316
15.935	0.2873	+0.56634	201	−285	+4.392	22	+ 2	−16.980	139	− 8.744	314
16.932	0.2900	0.56835	203	−270	4.414	23	+34	16.841	144	9.058	311
17.930	0.2927	0.57038	206	−206	4.437	23	+58	16.697	149	9.369	308
18.927	0.2954	0.57244	209	−103	4.460	23	+74	16.548	153	9.677	306
19.924	0.2982	0.57453	211	+ 16	4.483	23	+78	16.395	158	9.983	302
20.921	0.3009	0.57664	214	+129	4.506	23	+68	16.237	163	10.285	299
21.919	0.3036	+0.57878	216	+221	+4.529	24	+45	−16.074	167	−10.584	296
22.916	0.3064	0.58094	219	+267	4.553	25	+15	15.907	172	10.880	292
23.913	0.3091	0.58313	221	+259	4.578	24	−20	15.735	176	11.172	289
24.910	0.3118	0.58534	223	+186	4.602	25	−53	15.559	180	11.461	285
25.908	0.3146	0.58757	227	+ 60	4.627	25	−77	15.379	184	11.746	282
26.905	0.3173	0.58984	229	−103	4.652	26	−88	15.195	189	12.028	279
27.902	0.3200	+0.59213	232	−270	+4.678	25	−80	−15.006	193	−12.307	275
28.899	0.3228	0.59445	235	−403	4.703	25	−55	14.813	197	12.582	271
29.897	0.3255	0.59680	238	−459	4.728	26	−15	14.616	201	12.853	267
30.894	0.3282	0.59918	240	−427	4.754	26	+25	14.415	205	13.120	264
Mai 1.891	0.3309	0.60158	243	−296	4.780	26	+60	14.210	209	13.384	260
2.889	0.3337	+0.60401		−100	+4.806		+82	−14.001		−13.644	

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Welt-Zeit		t	A		A′	B		B′	C		D	
1938		ʰ			in 0.00001	″		in 0.″001	″		″	
Mai	2.889	0.3337	+0.60401	246	−100	+4.806	26	+82	−14.001	213	−13.644	255
	3.886	0.3364	0.60647	248	+123	4.832	26	+81	13.788	217	13.899	252
	4.883	0.3391	0.60895	252	+321	4.858	25	+62	13.571	221	14.151	247
	5.880	0.3419	0.61147	255	+449	4.883	26	+29	13.350	225	14.398	243
	6.878	0.3446	0.61402	257	+482	4.909	26	−11	13.125	228	14.641	239
	7.875	0.3473	0.61659	260	+422	4.935	25	−48	12.897	232	14.880	235
	8.872	0.3501	+0.61919	263	+286	+4.960	26	−71	−12.665	235	−15.115	230
	9.869	0.3528	0.62182	265	+111	4.986	26	−76	12.430	238	15.345	225
	10.867	0.3555	0.62447	268	− 55	5.012	26	−64	12.192	242	15.570	221
	11.864	0.3582	0.62715	270	−191	5.038	25	−43	11.950	245	15.791	217
	12.861	0.3610	0.62985	273	−263	5.063	25	−10	11.705	249	16.008	212
	13.859	0.3637	0.63258	276	−271	5.088	25	+23	11.456	252	16.220	207
	14.856	0.3664	+0.63534	278	−221	+5.113	24	+50	−11.204	254	−16.427	203
	15.853	0.3692	0.63812	281	−136	5.137	25	+70	10.950	257	16.630	198
	16.850	0.3719	0.64093	284	− 25	5.162	24	+76	10.693	261	16.828	193
	17.848	0.3746	0.64377	286	+ 87	5.186	24	+70	10.432	263	17.021	188
	18.845	0.3774	0.64663	289	+183	5.210	24	+54	10.169	266	17.209	183
	19.842	0.3801	0.64952	291	+246	5.234	24	+27	9.903	269	17.392	179
	20.839	0.3828	+0.65243	294	+260	+5.258	24	− 4	− 9.634	271	−17.571	173
	21.837	0.3856	0.65537	296	+211	5.282	23	−40	9.363	274	17.744	168
	22.834	0.3883	0.65833	298	+104	5.305	23	−68	9.089	276	17.912	164
	23.831	0.3910	0.66131	301	− 51	5.328	22	−86	8.813	278	18.076	158
	24.828	0.3937	0.66432	303	−225	5.350	22	−85	8.535	281	18.234	153
	25.826	0.3965	0.66735	305	−380	5.372	22	−68	8.254	283	18.387	148
	26.823	0.3992	+0.67040	307	−482	+5.394	22	−35	− 7.971	285	−18.535	142
	27.820	0.4019	0.67347	309	−492	5.416	21	+ 7	7.686	287	18.677	137
	28.818	0.4047	0.67656	310	−398	5.437	20	+48	7.399	289	18.814	132
	29.815	0.4074	0.67966	312	−221	5.457	20	+76	7.110	291	18.946	127
	30.812	0.4101	0.68278	315	+ 10	5.477	19	+86	6.819	292	19.073	121
	31.809	0.4129	0.68593	316	+238	5.496	19	+73	6.527	295	19.194	116
Juni	1.807	0.4156	+0.68909	318	+413	+5.515	18	+45	− 6.232	296	−19.310	111
	2.804	0.4183	0.69227	320	+501	5.533	18	+ 6	5.936	298	19.421	106
	3.801	0.4210	0.69547	321	+482	5.551	17	−35	5.638	299	19.527	100
	4.798	0.4238	0.69868	323	+373	5.568	17	−65	5.339	301	19.627	95
	5.796	0.4265	0.70191	324	+210	5.585	16	−79	5.038	302	19.722	88
	6.793	0.4292	0.70515	325	+ 27	5.601	16	−73	4.736	303	19.810	83
	7.790	0.4320	+0.70840	326	−125	+5.617	15	−52	− 4.433	305	−19.893	77
	8.788	0.4347	0.71166	327	−222	5.632	15	−21	4.128	306	19.970	72
	9.785	0.4374	0.71493	329	−256	5.647	14	+13	3.822	306	20.042	66
	10.782	0.4402	0.71822	330	−223	5.661	14	+43	3.516	307	20.108	61
	11.779	0.4429	0.72152	330	−147	5.675	14	+64	3.209	309	20.169	56
	12.777	0.4456	+0.72482		− 43	+5.689		+74	− 2.900		−20.225	

Reductionsgrößen 1938

für 12ʰ Sternzeit Greenwich

Welt-Zeit	t	A		A′	B		B′	C		D	
1938	s			in 0.00001	"		in 0.001 "	"		"	
Juni 12.777	0.4456	+0.72482	331	− 43	+5.689	13	+74	−2.900	309	−20.225	50
13.774	0.4484	0.72813	332	+ 67	5.702	12	+73	2.591	310	20.275	44
14.771	0.4511	0.73145	332	+165	5.714	11	+60	2.281	310	20.319	38
15.768	0.4538	0.73477	333	+233	5.725	11	+37	1.971	311	20.357	33
16.766	0.4565	0.73810	333	+264	5.736	10	+ 6	1.660	311	20.390	27
17.763	0.4593	0.74143	333	+240	5.746	10	−27	1.349	311	20.417	22
18.760	0.4620	+0.74476	334	+155	+5.756	9	−54	−1.038	311	−20.439	16
19.757	0.4647	0.74810	334	+ 16	5.765	8	−77	0.727	312	20.455	10
20.755	0.4675	0.75144	334	−155	5.773	7	−86	0.415	312	20.465	5
21.752	0.4702	0.75478	334	−329	5.780	7	−78	−0.103	312	20.470	1
22.749	0.4729	0.75812	335	−462	5.787	7	−51	+0.209	312	20.469	6
23.747	0.4757	0.76147	334	−524	5.794	6	−12	0.521	312	20.463	13
24.744	0.4784	+0.76481	334	−493	+5.800	5	+30	+0.833	312	−20.450	18
25.741	0.4811	0.76815	333	−348	5.805	5	+62	1.145	311	20.432	23
26.738	0.4838	0.77148	333	−138	5.810	4	+83	1.456	310	20.409	29
27.736	0.4866	0.77481	333	+101	5.814	4	+82	1.766	310	20.380	35
28.733	0.4893	0.77814	332	+313	5.818	3	+61	2.076	309	20.345	41
29.730	0.4920	0.78146	330	+453	5.821	3	+23	2.385	309	20.304	46
30.727	0.4948	+0.78476	330	+491	+5.824	2	−20	+2.694	308	−20.258	52
Juli 1.725	0.4975	0.78806	329	+429	5.826	2	−55	3.002	307	20.206	57
2.722	0.5002	0.79135	329	+288	5.828	1	−76	3.309	306	20.149	62
3.719	0.5030	0.79464	327	+114	5.829	1	−79	3.615	305	20.087	68
4.717	0.5057	0.79791	326	− 54	5.830	1	−66	3.920	304	20.019	74
5.714	0.5084	0.80117	325	−178	5.829	2	−35	4.224	304	19.945	79
6.711	0.5112	+0.80442	324	−235	+5.827	2	0	+4.528	302	−19.866	84
7.708	0.5139	0.80766	322	−223	5.825	2	+33	4.830	301	19.782	90
8.706	0.5166	0.81088	321	−157	5.823	2	+59	5.131	299	19.692	95
9.703	0.5193	0.81409	319	− 57	5.821	3	+75	5.430	297	19.597	101
10.700	0.5221	0.81728	318	+ 54	5.818	3	+73	5.727	296	19.496	106
11.697	0.5248	0.82046	316	+159	5.815	4	+64	6.023	294	19.390	112
12.695	0.5275	+0.82362	314	+237	+5.811	4	+43	+6.317	292	−19.278	117
13.692	0.5303	0.82676	313	+277	5.807	5	+16	6.609	291	19.161	123
14.689	0.5330	0.82989	311	+269	5.802	6	−13	6.900	289	19.038	127
15.686	0.5357	0.83300	308	+205	5.796	6	−45	7.189	288	18.911	133
16.684	0.5385	0.83608	307	+ 89	5.790	6	−68	7.477	285	18.778	138
17.681	0.5412	0.83915	305	− 69	5.784	7	−82	7.762	283	18.640	143
18.678	0.5439	+0.84220	302	−243	+5.777	7	−80	+8.045	281	−18.497	148
19.676	0.5466	0.84522	301	−400	5.770	8	−61	8.326	278	18.349	153
20.673	0.5494	0.84823	298	−503	5.762	7	−29	8.604	276	18.196	159
21.670	0.5521	0.85121	296	−516	5.755	8	+11	8.880	273	18.037	163
22.667	0.5548	0.85417	294	−435	5.747	8	+50	9.153	271	17.874	169
23.665	0.5576	+0.85711		−266	+5.739		+75	+9.424		−17.705	

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Welt-Zeit	t	A		A′	B		B′	C		D	
1938	s			in 0.00001	"		in 0.001 "	"		"	
Juli 23.665	0.5576	+0.85711	292	−266	+5.739	9	+75	+ 9.424	269	−17.705	173
24.662	0.5603	0.86003	289	− 43	5.730	9	+82	9.693	267	17.532	178
25.659	0.5630	0.86292	286	+182	5.721	10·	+71	9.960	263	17.354	183
26.656	0.5658	0.86578	284	+357	5.711	9	+40	10.223	260	17.171	188
27.654	0.5685	0.86862	282	+447	5.702	10	+ 1	10.483	258	16.983	193
28.651	0.5712	0.87144	279	+435	5.692	10	−40	10.741	255	16.790	197
29.648	0.5740	+0.87423	276	+335	+5.682	11	−69	+10.996	252	−16.593	202
30.646	0.5767	0.87699	273	+176	5.671	10	−80	11.248	249	16.391	206
31.643	0.5794	0.87972	271	+ 5	5.661	11	−73	11.497	246	16.185	210
Aug. 1.640	0.5821	0.88243	269	−139	5.650	11	−52	11.743	243	15.975	215
2.637	0.5849	0.88512	265	−220	5.639	11	−15	11.986	239	15.760	220
3.635	0.5876	0.88777	262	−232	5.628	11	+20	12.225	236	15.540	224
4.632	0.5903	+0.89039	260	−182	+5.617	11	+52	+12.461	232	−15.316	229
5.629	0.5931	0.89299	257	− 84	5.606	11	+72	12.693	229	15.087	233
6.626	0.5958	0.89556	255	+ 33	5.595	12	+77	12.922	225	14.854	237
7.624	0.5985	0.89811	252	+146	5.583	11	+72	13.147	222	14.617	241
8.621	0.6013	0.90063	249	+238	5.572	12	+54	13.369	218	14.376	245
9.618	0.6040	0.90312	246	+292	5.560	11	+28	13.587	215	14.131	249
10.616	0.6067	+0.90558	244	+299	+5.549	12	− 2	+13.802	211	−13.882	254
11.613	0.6094	0.90802	241	+255	5.537	11	−33	14.013	207	13.628	257
12.610	0.6122	0.91043	238	+155	5.526	12	−59	14.220	203	13.371	261
13.607	0.6149	0.91281	235	+ 12	5.514	11	−77	14.423	199	13.110	265
14.605	0.6176	0.91516	232	−153	5.503	10	−82	14.622	195	12.845	268
15.602	0.6204	0.91748	230	−315	5.493	11	−68	14.817	191	12.577	272
16.599	0.6231	+0.91978	227	−437	+5.482	11	−42	+15.008	186	−12.305	275
17.596	0.6258	0.92205	224	−492	5.471	11	− 4	15.194	182	12.030	279
18.594	0.6286	0.92429	222	−459	5.460	10	+35	15.376	179	11.751	282
19.591	0.6313	0.92651	219	−335	5.450	10	+63	15.555	174	11.469	286
20.588	0.6340	0.92870	216	−145	5.440	10	+80	15.729	170	11.183	289
21.585	0.6368	0.93086	214	+ 68	5.430	10	+76	15.899	166	10.894	292
22.583	0.6395	+0.93300	211	+255	+5.420	9	+54	+16.065	161	−10.602	296
23.580	0.6422	0.93511	209	+379	5.411	9	+18	16.226	157	10.306	299
24.577	0.6449	0.93720	206	+409	5.402	9	−22	16.383	152	10.007	301
25.575	0.6477	0.93926	204	+345	5.393	9	−56	16.535	147	9.706	304
26.572	0.6504	0.94130	202	+215	5.384	9	−77	16.682	143	9.402	306
27.569	0.6531	0.94332	199	+ 47	5.375	8	−78	16.825	138	9.096	310
28.566	0.6559	+0.94531	197	−105	+5.367	7	−62	+16.963	133	− 8.786	312
29.564	0.6586	0.94728	195	−211	5.360	7	−32	17.096	128	8.474	315
30.561	0.6613	0.94923	192	−251	5.353	7	+ 6	17.224	124	8.159	317
31.558	0.6641	0.95115	191	−219	5.346	6	+40	17.348	118	7.842	320
Sept. 1.555	0.6668	0.95306	189	−135	5.340	5	+64	17.466	114	7.522	321
2.553	0.6695	+0.95495		− 15	+5.335		+77	+17.580		− 7.201	

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Welt-Zeit	t	A		A′	B		B′	C		D	
1938	s			in 0.00001	″		in 0.″001	″		″	
Sept. 2.553	0.6695	+0.95495	187	− 15	+5.335	6	+77	+17.580	109	−7.201	324
3.550	0.6722	0.95682	186	+107	5.329	5	+78	17.689	104	6.877	326
4.547	0.6750	0.95868	183	+216	5.324	5	+62	17.793	98	6.551	328
5.545	0.6777	0.96051	182	+291	5.319	4	+40	17.891	94	6.223	330
6.542	0.6804	0.96233	180	+317	5.315	3	+ 9	17.985	89	5.893	332
7.539	0.6832	0.96413	178	+292	5.312	3	−23	18.074	84	5.561	334
8.536	0.6859	+0.96591	177	+213	+5.309	3	−51	+18.158	78	−5.227	336
9.534	0.6886	0.96768	175	+ 84	5.306	2	−71	18.236	74	4.891	337
10.531	0.6914	0.96943	174	− 75	5.304	1	−81	18.310	68	4.554	338
11.528	0.6941	0.97117	173	−238	5.303	1	−74	18.378	63	4.216	340
12.525	0.6968	0.97290	171	−373	5.302	0	−52	18.441	57	3.876	341
13.523	0.6996	0.97461	171	−449	5.302	1	−18	18.498	52	3.535	342
14.520	0.7023	+0.97632	170	−446	+5.303	1	+18	+18.550	47	−3.193	343
15.517	0.7050	0.97802	169	−357	5.304	1	+53	18.597	42	2.850	345
16.514	0.7077	0.97971	168	−196	5.305	2	+74	18.639	36	2.505	345
17.512	0.7105	0.98139	168	− 1	5.307	3	+78	18.675	31	2.160	346
18.509	0.7132	0.98307	167	+191	5.310	4	+64	18.706	25	1.814	347
19.506	0.7159	0.98474	166	+331	5.314	4	+32	18.731	20	1.467	347
20.504	0.7187	+0.98640	166	+389	+5.318	5	− 7	+18.751	15	−1.120	348
21.501	0.7214	0.98806	165	+355	5.323	5	−43	18.766	9	0.772	349
22.498	0.7241	0.98971	166	+246	5.328	6	−70	18.775	4	0.423	349
23.495	0.7269	0.99137	165	+ 92	5.334	7	−78	18.779	1	−0.074	350
24.493	0.7296	0.99302	165	− 69	5.341	7	−68	18.778	6	+0.276	349
25.490	0.7323	0.99467	165	−194	5.348	8	−45	18.772	13	0.625	350
26.487	0.7350	+0.99632	166	−261	+5.356	9	−11	+18.759	18	+0.975	349
27.484	0.7378	0.99798	167	−266	5.365	9	+24	18.741	23	1.324	349
28.482	0.7405	0.99965	166	−192	5.374	10	+56	18.718	29	1.673	348
29.479	0.7432	1.00131	167	− 83	5.384	10	+74	18.689	35	2.021	348
30.476	0.7460	1.00298	168	+ 45	5.394	11	+80	18.654	40	2.369	347
Okt. 1.474	0.7487	1.00466	168	+169	5.405	12	+71	18.614	45	2.716	347
2.471	0.7514	+1.00634	169	+262	+5.417	13	+50	+18.569	51	+3.063	346
3.468	0.7542	1.00803	171	+314	5.430	13	+22	18.518	56	3.409	345
4.465	0.7569	1.00974	172	+311	5.443	14	− 9	18.462	62	3.754	344
5.463	0.7596	1.01146	172	+250	5.457	14	−42	18.400	67	4.098	344
6.460	0.7624	1.01318	173	+138	5.471	15	−67	18.333	73	4.442	343
7.457	0.7651	1.01491	175	− 14	5.486	15	−79	18.260	78	4.785	341
8.454	0.7678	+1.01666	177	−177	+5.501	16	−80	+18.182	84	+5.126	340
9.452	0.7705	1.01843	178	−322	5.517	16	−61	18.098	89	5.466	339
10.449	0.7733	1.02021	180	−423	5.533	18	−34	18.009	94	5.805	337
11.446	0.7760	1.02201	181	−431	5.551	18	+ 5	17.915	100	6.142	336
12.443	0.7787	1.02382	183	−378	5.569	18	+43	17.815	105	6.478	334
13.441	0.7815	+1.02565		−236	+5.587		+69	+17.710		+6.812	

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Welt-Zeit	t	A		A'	B		B'	C		D	
1938	h			in 0.00001	"		in 0.001 "	"		"	
Okt. 13.441	0.7815	+1.02565	185	−236	+5.587	19	+69	+17.710	110	+ 6.812	331
14.438	0.7842	1.02750	187	− 45	5.606	19	+78	17.600	116	7.143	329
15.435	0.7869	1.02937	188	+149	5.625	20	+70	17.484	121	7.472	328
16.433	0.7897	1.03125	191	+308	5.645	20	+46	17.363	126	7.800	326
17.430	0.7924	1.03316	193	+393	5.665	21	+ 7	17.237	132	8.126	323
18.427	0.7951	1.03509	196	+389	5.686	21	−28	17.105	137	8.449	321
19.424	0.7978	+1.03705	198	+301	+5.707	21	−58	+16.968	141	+ 8.770	319
20.422	0.8006	1.03903	201	+152	5.728	22	−75	16.827	147	9.089	316
21.419	0.8033	1.04104	203	− 15	5.750	23	−74	16.680	152	9.405	314
22.416	0.8060	1.04307	206	−159	5.773	22	−55	16.528	157	9.719	311
23.413	0.8088	1.04513	208	−251	5.795	23	−25	16.371	162	10.030	308
24.411	0.8115	1.04721	211	−275	5.818	24	+11	16.209	167	10.338	305
25.408	0.8142	+1.04932	214	−234	+5.842	24	+43	+16.042	172	+10.643	302
26.405	0.8170	1.05146	217	−142	5.866	24	+65	15.870	177	10.945	299
27.403	0.8197	1.05363	219	− 20	5.890	25	+78	15.693	181	11.244	295
28.400	0.8224	1.05582	222	+108	5.915	25	+76	15.512	186	11.539	292
29.397	0.8252	1.05804	226	+214	5.940	25	+59	15.326	191	11.831	289
30.394	0.8279	1.06030	228	+286	5.965	25	+36	15.135	196	12.120	285
31.392	0.8306	+1.06258	231	+307	+5.990	26	+ 3	+14.939	201	+12.405	281
Nov. 1.389	0.8333	1.06489	234	+273	6.016	25	−27	14.738	205	12.686	278
2.386	0.8361	1.06723	238	+179	6.041	26	−57	14.533	210	12.964	274
3.383	0.8388	1.06961	241	+ 39	6.067	26	−76	14.323	214	13.238	270
4.381	0.8415	1.07202	243	−125	6.093	26	−83	14.109	218	13.508	267
5.378	0.8443	1.07445	246	−286	6.119	26	−73	13.891	223	13.775	263
6.375	0.8470	+1.07691	250	−410	+6.145	26	−46	+13.668	227	+14.038	258
7.372	0.8497	1.07941	253	−463	6.171	26	−12	13.441	232	14.296	254
8.370	0.8525	1.08194	257	−426	6.197	26	+27	13.209	235	14.550	250
9.367	0.8552	1.08451	260	−304	6.223	26	+60	12.974	239	14.800	245
10.364	0.8579	1.08711	263	−116	6.249	27	+77	12.735	244	15.045	240
11.362	0.8606	1.08974	266	+ 94	6.276	26	+77	12.491	248	15.285	236
12.359	0.8634	+1.09240	269	+281	+6.302	26	+56	+12.243	251	+15.521	231
13.356	0.8661	1.09509	272	+402	6.328	26	+22	11.992	255	15.752	227
14.353	0.8688	1.09781	274	+431	6.354	26	−15	11.737	259	15.979	222
15.351	0.8716	1.10055	278	+369	6.380	25	−51	11.478	262	16.201	217
16.348	0.8743	1.10333	282	+237	6.405	25	−71	11.216	266	16.418	212
17.345	0.8770	1.10615	285	+ 67	6.430	25	−75	10.950	269	16.630	207
18.342	0.8798	+1.10900	288	− 96	+6.455	24	−62	+10.681	273	+16.837	202
19.340	0.8825	1.11188	291	−209	6.479	25	−36	10.408	276	17.039	197
20.337	0.8852	1.11479	294	−265	6.504	24	− 3	10.132	280	17.236	191
21.334	0.8880	1.11773	296	−251	6.528	24	+31	9.852	283	17.427	186
22.332	0.8907	1.12069	299	−177	6.552	23	+58	9.569	285	17.613	180
23.329	0.8934	+1.12368		− 66	+6.575		+73	+ 9.284		+17.793	

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für 12^h Sternzeit Greenwich

Welt-Zeit	*t*	*A*	Δ	*A'*	*B*	Δ	*B'*	*C*	Δ	*D*	Δ
1938	s			in 0.00001	"		in 0."001	"		"	
Nov. 23.329	0.8934	+1.12368	301	− 66	+6.575	24	+73	+9.284	288	+17.793	175
24.326	0.8961	1.12669	305	+ 56	6.599	24	+75	8.996	292	17.968	170
25.323	0.8989	1.12974	308	+168	6.623	23	+66	8.704	295	18.138	164
26.321	0.9016	1.13282	310	+255	6.646	22	+45	8.409	297	18.302	159
27.318	0.9043	1.13592	313	+294	6.668	21	+19	8.112	300	18.461	153
28.315	0.9071	1.13905	316	+283	6.689	21	−14	7.812	302	18.614	147
29.312	0.9098	+1.14221	318	+213	+6.710	20	−44	+7.510	305	+18.761	141
30.310	0.9125	1.14539	320	+ 91	6.730	20	−68	7.205	307	18.902	136
Dez. 1.307	0.9153	1.14859	322	− 67	6.750	20	−80	6.898	309	19.038	130
2.304	0.9180	1.15181	325	−239	6.770	19	−77	6.589	312	19.168	124
3.302	0.9207	1.15506	326	−387	6.789	19	−59	6.277	314	19.292	118
4.299	0.9234	1.15832	328	−479	6.808	18	−29	5.963	315	19.410	111
5.296	0.9262	+1.16160	330	−486	+6.826	18	+ 9	+5.648	318	+19.521	106
6.293	0.9289	1.16490	332	−398	6.844	17	+47	5.330	319	19.627	100
7.291	0.9316	1.16822	334	−227	6.861	17	+72	5.011	321	19.727	94
8.288	0.9344	1.17156	336	− 12	6.878	16	+80	4.690	322	19.821	87
9.285	0.9371	1.17492	337	+205	6.894	15	+68	4.368	324	19.908	81
10.282	0.9398	1.17829	339	+372	6.909	14	+39	4.044	325	19.989	75
11.280	0.9426	+1.18168	340	+449	+6.923	14	0	+3.719	326	+20.064	69
12.277	0.9453	1.18508	341	+431	6.937	13	−37	3.393	327	20.133	62
13.274	0.9480	1.18849	342	+324	6.950	12	−68	3.066	329	20.195	56
14.271	0.9508	1.19191	343	+163	6.962	12	−79	2.737	329	20.251	50
15.269	0.9535	1.19534	344	− 9	6.974	11	−71	2.408	330	20.301	43
16.266	0.9562	1.19878	345	−153	6.985	11	−48	2.078	331	20.344	37
17.263	0.9589	+1.20223	345	−233	+6.996	9	−14	+1.747	332	+20.381	30
18.261	0.9617	1.20568	346	−243	7.005	9	+23	1.415	332	20.411	24
19.258	0.9644	1.20914	346	−188	7.014	8	+50	1.083	332	20.435	18
20.255	0.9671	1.21260	346	− 91	7.022	8	+68	0.751	333	20.453	11
21.252	0.9699	1.21606	347	+ 28	7.030	7	+76	0.418	333	20.464	5
22.250	0.9726	1.21953	347	+146	7.037	6	+70	+0.085	333	20.469	1
23.247	0.9753	+1.22300	347	+233	+7.043	6	+52	−0.248	332	+20.468	8
24.244	0.9781	1.22647	347	+287	7.049	5	+28	0.580	333	20.460	14
25.241	0.9808	1.22994	347	+292	7.054	4	− 2	0.913	333	20.446	21
26.239	0.9835	1.23341	346	+244	7.058	4	−32	1.246	332	20.425	27
27.236	0.9862	1.23687	345	+144	7.062	3	−57	1.578	332	20.398	34
28.233	0.9890	1.24032	345	− 1	7.065	1	−74	1.910	331	20.364	40
29.231	0.9917	+1.24377	344	−171	+7.066	0	−80	−2.241	330	+20.324	46
30.228	0.9944	1.24721	343	−337	7.066	1	−70	2.571	330	20.278	53
31.225	0.9972	1.25064	343	−463	7.067	0	−43	2.901	329	20.225	60
32.222	0.9999	+1.25407		−519	+7.067		− 8	−3.230		+20.165	

Übertragung mittlerer Sternörter

von dem Äquinoktium t_1 auf $t_2 = 1938.0$

t_1	$m^s(t_2-t_1)$	$n^s(t_2-t_1)$	$n''(t_2-t_1)$	log $n^s(t_2-t_1)$	log $n''(t_2-t_1)$
	m s	s	"		
1755	+9 22.055	+244.627	+3669.41	2.388505	3.564596
1790	7 34.606	197.826	2967.39	2.296283	3.472375
1800	7 3.902	184.455	2766.83	2.265890	3.441982
1810	6 33.197	171.085	2566.28	2.233212	3.409304
1825	5 47.135	151.032	2265.47	2.179069	3.355158
1830	+5 31.780	+144.347	+2165.21	2.159408	3.335499
1835	5 16.424	137.663	2064.94	2.138817	3.314908
1840	5 1.069	130.979	1964.68	2.117202	3.293292
1845	4 45.713	124.295	1864.42	2.094453	3.270544
1850	4 30.355	117.611	1764.17	2.070448	3.246540
1855	+4 14.999	+110.928	+1663.91	2.045041	3.221130
1860	3 59.641	104.244	1563.66	2.018051	3.194142
1865	3 44.283	97.561	1463.41	1.989276	3.165366
1870	3 28.924	90.878	1363.16	1.958459	3.134547
1875	3 13.565	84.194	1262.92	1.925281	3.101374
1880	+2 58.205	+77.512	+1162.67	1.88937	3.065457
1885	2 42.845	70.829	1062.43	1.85021	3.026300
1890	2 27.484	64.146	962.19	1.80717	2.983261
1895	2 12.124	57.464	861.95	1.75940	2.935483
1900	1 56.762	50.781	761.72	1.70570	2.881794
1905	+1 41.400	+44.099	+ 661.48	1.64443	2.82052
1910	1 26.038	37.417	561.25	1.57307	2.74916
1915	1 10.675	30.735	461.02	1.48763	2.66372
1920	0 55.312	24.053	360.80	1.38117	2.55727
1925	0 39.948	17.372	260.57	1.23985	2.41593
1930	+0 24.584	+ 10.690	+ 160.35	1.02898	2.20507
1935	+0 9.219	+ 4.009	+ 60.13	0.60304	1.77910
1940	−0 6.146	− 2.672	− 40.09	0.42684*n*	1.60300*n*

Sind α_1, δ_1 die Koordinaten für t_1 und α_2, δ_2 jene für $t_2 = 1938.0$, ist ferner α', δ' der genäherte Sternort für die Zeit

$$\frac{1}{2}(t_1 + t_2),$$

so ist

$$\alpha_2 = \alpha_1 + m^s(t_2 - t_1) + [n^s(t_2 - t_1)] \sin \alpha' \operatorname{tg} \delta'$$
$$\delta_2 = \delta_1 + [n''(t_2 - t_1)] \cos \alpha'$$

Übertragung mittlerer Polsternörter
von dem Äquinoktium t_1 auf $t_2 = 1938.0$

t_1	$90° - (N)$	$(m) + (N) - 90°$	(n)
1755	+70′ 14.″20	+70′ 16.″85	+61′ 9.″15
1790	56 48.74	56 50.48	49 27.25
1800	52 58.56	53 0.07	46 6.72
1810	49 8.36	49 9.66	42 46.19
1825	43 23.03	43 24.04	37 45.41
1830	+41 27.91	+41 28.83	+36 5.15
1835	39 32.78	39 33.62	34 24.90
1840	37 37.65	37 38.41	32 44.64
1845	35 42.52	35 43.20	31 4.39
1850	33 47.37	33 47.99	29 24.14
1855	+31 52.22	+31 52.77	+27 43.89
1860	29 57.07	29 57.55	26 3.64
1865	28 1.91	28 2.33	24 23.39
1870	26 6.75	26 7.12	22 43.15
1875	24 11.58	24 11.90	21 2.90
1880	+22 16.41	+22 16.68	+19 22.66
1885	20 21.23	20 21.45	17 42.42
1890	18 26.04	18 26.23	16 2.18
1895	16 30.85	16 31.00	14 21.95
1900	14 35.65	14 35.78	12 41.71
1905	+12 40.45	+12 40.55	+11 1.48
1910	10 45.25	10 45.32	9 21.25
1915	8 50.03	8 50.08	7 41.02
1920	6 54.82	6 54.85	6 0.80
1925	4 59.60	4 59.61	4 20.57
1930	+ 3 4.37	+ 3 4.38	+ 2 40.35
1935	+ 1 9.14	+ 1 9.14	+ 1 0.13
1940	− 0 46.10	− 0 46.10	− 0 40.09

Sind α_1, δ_1 die Koordinaten für t_1 und α_2, δ_2 jene für $t_2 = 1938.0$, so hat man

zur Reduktion von dem Äquinoktium t_1 auf t_2:

$$a_1 = \alpha_1 + [90° - (N)]$$

$$p_1 = \left(\text{tang}\,\delta_1 + \cos a_1 \,\text{tang}\,\tfrac{1}{2}(n)\right) \sin (n)$$

$$\text{tang}\,\Delta a_1 = \frac{p_1 \sin a_1}{1 - p_1 \cos a_1}$$

$$\alpha_2 = a_1 + [(m) + (N) - 90°] + \Delta a_1$$

$$\text{tang}\,\tfrac{1}{2}(\delta_2 - \delta_1) = \cos (a_1 + \tfrac{1}{2}\Delta a_1) \sec \tfrac{1}{2}\Delta a_1 \,\text{tang}\,\tfrac{1}{2}(n)$$

zur Reduktion von dem Äquinoktium t_2 auf t_1:

$$a_2 = \alpha_2 - [(m) + (N) - 90°]$$

$$p_2 = -\left(\text{tang}\,\delta_2 - \cos a_2 \,\text{tang}\,\tfrac{1}{2}(n)\right) \sin (n)$$

$$\text{tang}\,\Delta a_2 = \frac{p_2 \sin a_2}{1 - p_2 \cos a_2}$$

$$\alpha_1 = a_2 - [90° - (N)] + \Delta a_2$$

$$\text{tang}\,\tfrac{1}{2}(\delta_1 - \delta_2) = -\cos \left(a_2 + \tfrac{1}{2}\Delta a_2\right) \sec \tfrac{1}{2}\Delta a_2 \,\text{tang}\,\tfrac{1}{2}(n)$$

Reduktion von Koordinatendifferenzen scheinbarer Örter auf Differenzen mittlerer Örter für den Jahresanfang.

Sind $\Delta\alpha$ und $\Delta\delta$ die gemessenen Koordinatendifferenzen der scheinbaren Örter im Sinne Objekt minus Stern, $d\Delta\alpha$ und $d\Delta\delta$ die an ihnen anzubringenden Korrektionen, um Koordinatendifferenzen zu erhalten, die sich auf das mittlere Äquinoktium des Jahresanfangs beziehen, so wird

$$d\Delta\alpha = (d\Delta\alpha)_1 + (d\Delta\alpha)_2$$
$$d\Delta\delta = (d\Delta\delta)_1 + (d\Delta\delta)_2,$$

wobei

$$(d\Delta\alpha)_1 = -j\cos(G+\alpha)\,\frac{\operatorname{tg}\delta}{15}\,\Delta\alpha^{\mathrm{m}} - j\sin(G+\alpha)\,\frac{\sec^2\delta}{225}\,\Delta\delta'$$

$$(d\Delta\alpha)_2 = -k\cos(H+\alpha)\,\frac{\sec\delta}{15}\,\Delta\alpha^{\mathrm{m}} - k\sin(H+\alpha)\,\frac{\operatorname{tg}\delta\sec\delta}{225}\,\Delta\delta'$$

$$(d\Delta\delta)_1 = j\sin(G+\alpha)\,\Delta\alpha^{\mathrm{m}}$$

$$(d\Delta\delta)_2 = k\sin(H+\alpha)\sin\delta\,\Delta\alpha^{\mathrm{m}} - k\cos(H+\alpha)\,\frac{\cos\delta}{15}\,\Delta\delta' + [0.0003\,i\sin\delta\,\Delta\delta']$$

Hierin bezeichnen $(d\Delta\alpha)_1$ und $(d\Delta\delta)_1$ den Einfluß der Präzession und Nutation, $(d\Delta\alpha)_2$ und $(d\Delta\delta)_2$ den Einfluß der Aberration.

Die Größen G, H, j, k, i sind auf S. 238* – 255* zu finden. Die Faktoren $\frac{1}{15}\operatorname{tg}\delta$, $\frac{1}{225}\sec^2\delta$, $\frac{1}{15}\sec\delta$, $\frac{1}{225}\operatorname{tg}\delta\sec\delta$, $\sin\delta$, $\frac{1}{15}\cos\delta$ entnehme man der Zusammenstellung auf S. 268*. Die numerischen Werte der Funktionen sinus und cosinus sind auf S. 269* enthalten. $\Delta\alpha^{\mathrm{m}}$ bedeutet die in Zeitminuten ausgedrückte gemessene Rektaszensionsdifferenz, $\Delta\delta'$ ist die in Winkelminuten ausgedrückte gemessene Deklinationsdifferenz. Die Größen $d\Delta\alpha$ und $d\Delta\delta$ ergeben sich in Zeit- bzw. Winkelsekunden. Das in eckige Klammern gesetzte Glied $0.0003\,i\sin\delta\,\Delta\delta'$ in der Formel für $(d\Delta\delta)_2$ beträgt für $\Delta\delta' = 10'$ im Maximum $0''.02$ und kann daher in den meisten Fällen unberücksichtigt bleiben.

Reduktionsgrößen 1938

δ	$\frac{1}{15}\operatorname{tg}\delta$	$\frac{1}{225}\sec^2\delta$	$\frac{1}{15}\sec\delta$	$\frac{1}{225}\operatorname{tg}\delta\sec\delta$	$\sin\delta$	$\frac{1}{15}\cos\delta$	$\operatorname{tg}\delta$	$\frac{1}{15}\sec^2\delta$	δ
0°	0.000	0.004	0.067	0.000	0.00	0.07	0.00	0.07	0°
5	0.006	0.004	0.067	0.000	0.09	0.07	0.09	0.07	5
10	0.012	0.005	0.068	0.001	0.17	0.07	0.18	0.07	10
15	0.018	0.005	0.069	0.001	0.26	0.06	0.27	0.07	15
20	0.024	0.005	0.071	0.002	0.34	0.06	0.36	0.08	20
25	0.031	0.005	0.074	0.002	0.42	0.06	0.47	0.08	25
30	0.038	0.006	0.077	0.003	0.50	0.06	0.58	0.09	30
35	0.047	0.007	0.081	0.004	0.57	0.05	0.70	0.10	35
40	0.056	0.008	0.087	0.005	0.64	0.05	0.84	0.11	40
40°	0.056	0.008	0.087	0.005	0.64	0.05	0.84	0.11	40°
42	0.060	0.008	0.090	0.005	0.67	0.05	0.90	0.12	42
44	0.064	0.009	0.093	0.006	0.69	0.05	0.97	0.13	44
46	0.069	0.009	0.096	0.007	0.72	0.05	1.04	0.14	46
48	0.074	0.010	0.100	0.007	0.74	0.04	1.11	0.15	48
50	0.079	0.011	0.104	0.008	0.77	0.04	1.19	0.16	50
52	0.085	0.012	0.108	0.009	0.79	0.04	1.28	0.18	52
54	0.092	0.013	0.113	0.010	0.81	0.04	1.38	0.19	54
56	0.099	0.014	0.119	0.012	0.83	0.04	1.48	0.21	56
58	0.107	0.016	0.126	0.013	0.85	0.04	1.60	0.24	58
60	0.115	0.018	0.133	0.015	0.87	0.03	1.73	0.27	60
60°	0.115	0.018	0.133	0.015	0.87	0.03	1.73	0.27	60°
61	0.120	0.019	0.138	0.017	0.87	0.03	1.80	0.28	61
62	0.125	0.020	0.142	0.018	0.88	0.03	1.88	0.30	62
63	0.131	0.022	0.147	0.019	0.89	0.03	1.96	0.32	63
64	0.137	0.023	0.152	0.021	0.90	0.03	2.05	0.35	64
65	0.143	0.025	0.158	0.023	0.91	0.03	2.14	0.37	65
66	0.150	0.027	0.164	0.025	0.91	0.03	2.25	0.40	66
67	0.157	0.029	0.171	0.027	0.92	0.03	2.36	0.44	67
68	0.165	0.032	0.178	0.029	0.93	0.02	2.48	0.48	68
69	0.174	0.035	0.186	0.032	0.93	0.02	2.61	0.52	69
70	0.183	0.038	0.195	0.036	0.94	0.02	2.75	0.57	70
71	0.194	0.042	0.205	0.040	0.95	0.02	2.90	0.63	71
72	0.205	0.047	0.216	0.044	0.95	0.02	3.08	0.70	72
73	0.218	0.052	0.228	0.050	0.96	0.02	3.27	0.78	73
74	0.232	0.058	0.242	0.056	0.96	0.02	3.49	0.88	74
75	0.249	0.066	0.258	0.064	0.97	0.02	3.73	1.00	75
75.0°	0.249	0.066	0.258	0.064	0.97	0.02	3.73	1.00	75.0°
75.5	0.258	0.071	0.266	0.069	0.97	0.02	3.87	1.06	75.5
76.0	0.267	0.076	0.276	0.074	0.97	0.02	4.01	1.14	76.0
76.5	0.278	0.082	0.286	0.079	0.97	0.02	4.17	1.22	76.5
77.0	0.289	0.088	0.296	0.086	0.97	0.01	4.33	1.32	77.0
77.5	0.301	0.095	0.308	0.093	0.98	0.01	4.51	1.42	77.5
78.0	0.314	0.103	0.321	0.101	0.98	0.01	4.70	1.54	78.0
78.5	0.328	0.112	0.334	0.110	0.98	0.01	4.92	1.68	78.5
79.0	0.343	0.122	0.349	0.120	0.98	0.01	5.14	1.83	79.0
79.5	0.360	0.134	0.366	0.132	0.98	0.01	5.40	2.01	79.5
80.0	0.378	0.147	0.384	0.145	0.98	0.01	5.67	2.21	80.0

Sinus

	0h	1h	2h	3h	4h	5h	
0m	0.000	0.259	0.500	0.707	0.866	0.966	60
1	0.004	0.263	0.504	0.710	0.868	0.967	59
2	0.009	0.267	0.508	0.713	0.870	0.968	58
3	0.013	0.271	0.511	0.716	0.872	0.969	57
4	0.017	0.276	0.515	0.719	0.875	0.970	56
5	0.022	0.280	0.519	0.722	0.877	0.971	55
6	0.026	0.284	0.522	0.725	0.879	0.972	54
7	0.031	0.288	0.526	0.728	0.881	0.973	53
8	0.035	0.292	0.530	0.731	0.883	0.974	52
9	0.039	0.297	0.534	0.734	0.885	0.975	51
10	0.044	0.301	0.537	0.737	0.887	0.976	50
11	0.048	0.305	0.541	0.740	0.889	0.977	49
12	0.052	0.309	0.545	0.743	0.891	0.978	48
13	0.057	0.313	0.548	0.746	0.893	0.979	47
14	0.061	0.317	0.552	0.749	0.895	0.980	46
15	0.065	0.321	0.556	0.752	0.897	0.981	45
16	0.070	0.326	0.559	0.755	0.899	0.982	44
17	0.074	0.330	0.563	0.758	0.901	0.982	43
18	0.078	0.334	0.566	0.760	0.903	0.983	42
19	0.083	0.338	0.570	0.763	0.904	0.984	41
20	0.087	0.342	0.574	0.766	0.906	0.985	40
21	0.092	0.346	0.577	0.769	0.908	0.986	39
22	0.096	0.350	0.581	0.772	0.910	0.986	38
23	0.100	0.354	0.584	0.774	0.912	0.987	37
24	0.105	0.358	0.588	0.777	0.914	0.988	36
25	0.109	0.362	0.591	0.780	0.915	0.988	35
26	0.113	0.367	0.595	0.783	0.917	0.989	34
27	0.118	0.371	0.598	0.785	0.919	0.990	33
28	0.122	0.375	0.602	0.788	0.921	0.990	32
29	0.126	0.379	0.605	0.791	0.922	0.991	31
30	0.131	0.383	0.609	0.793	0.924	0.991	30
31	0.135	0.387	0.612	0.796	0.926	0.992	29
32	0.139	0.391	0.616	0.799	0.927	0.993	28
33	0.143	0.395	0.619	0.801	0.929	0.993	27
34	0.148	0.399	0.623	0.804	0.930	0.994	26
35	0.152	0.403	0.626	0.806	0.932	0.994	25
36	0.156	0.407	0.629	0.809	0.934	0.995	24
37	0.161	0.411	0.633	0.812	0.935	0.995	23
38	0.165	0.415	0.636	0.814	0.937	0.995	22
39	0.169	0.419	0.639	0.817	0.938	0.996	21
40	0.174	0.423	0.643	0.819	0.940	0.996	20
41	0.178	0.427	0.646	0.822	0.941	0.997	19
42	0.182	0.431	0.649	0.824	0.943	0.997	18
43	0.187	0.434	0.653	0.827	0.944	0.997	17
44	0.191	0.438	0.656	0.829	0.946	0.998	16
45	0.195	0.442	0.659	0.831	0.947	0.998	15
46	0.199	0.446	0.663	0.834	0.948	0.998	14
47	0.204	0.450	0.666	0.836	0.950	0.998	13
48	0.208	0.454	0.669	0.839	0.951	0.999	12
49	0.212	0.458	0.672	0.841	0.952	0.999	11
50	0.216	0.462	0.676	0.843	0.954	0.999	10
51	0.221	0.466	0.679	0.846	0.955	0.999	9
52	0.225	0.469	0.682	0.848	0.956	0.999	8
53	0.229	0.473	0.685	0.850	0.958	1.000	7
54	0.233	0.477	0.688	0.853	0.959	1.000	6
55	0.238	0.481	0.692	0.855	0.960	1.000	5
56	0.242	0.485	0.695	0.857	0.961	1.000	4
57	0.246	0.489	0.698	0.859	0.962	1.000	3
58	0.250	0.492	0.701	0.862	0.964	1.000	2
59	0.255	0.496	0.704	0.864	0.965	1.000	1
60	0.259	0.500	0.707	0.866	0.966	1.000	0m
	5h	4h	3h	2h	1h	0h	

Cosinus

Reduktionsgrößen 1938

Übertragung von Rektaszensions- und Deklinationsdifferenzen vom mittleren Äquinoktium 1938.0 auf das Normaläquinoktium 1950.0

α	a_1	a_2	d_1	α	α	a_1	a_2	d_1	α
h m	s	s	"	h m	h m	s	s	"	h m
0 0	+0.0700+	+0.0000—	—0.000+	24 0	6 0	—0.0000—	+0.0700—	—1.049+	18 0
10	0699	0031	046	50	10	0031	0699	1.048	50
20	0697	0061	092	40	20	0061	0697	1.045	40
30	0694	0091	137	30	30	0091	0694	1.041	30
40	0689	0121	182	20	40	0121	0689	1.034	20
50	0683	0151	227	10	50	0151	0683	1.025	10
1 0	+0.0676+	+0.0181—	—0.272+	23 0	7 0	—0.0181—	+0.0676—	—1.014+	17 0
10	0667	0210	316	50	10	0210	0667	1.001	50
20	0657	0239	359	40	20	0239	0657	0.986	40
30	0646	0268	402	30	30	0268	0646	970	30
40	0634	0296	444	20	40	0296	0634	951	20
50	0621	0323	485	10	50	0323	0621	931	10
2 0	+0.0606+	+0.0350—	—0.525+	22 0	8 0	—0.0350—	+0.0606—	—0.909+	16 0
10	0590	0376	564	50	10	0376	0590	885	50
20	0573	0401	602	40	20	0401	0573	860	40
30	0555	0426	639	30	30	0426	0555	833	30
40	0536	0450	675	20	40	0450	0536	804	20
50	0516	0473	709	10	50	0473	0516	774	10
3 0	+0.0495+	+0.0495—	—0.742+	21 0	9 0	—0.0495—	+0.0495—	—0.742+	15 0
10	0473	0516	774	50	10	0516	0473	709	50
20	0450	0536	804	40	20	0536	0450	675	40
30	0426	0555	833	30	30	0555	0426	639	30
40	0401	0573	860	20	40	0573	0401	602	20
50	0376	0590	885	10	50	0590	0376	564	10
4 0	+0.0350+	+0.0606—	—0.909+	20 0	10 0	—0.0606—	+0.0350—	—0.525+	14 0
10	0323	0621	931	50	10	0621	0323	485	50
20	0296	0634	951	40	20	0634	0296	444	40
30	0268	0646	970	30	30	0646	0268	402	30
40	0239	0657	0.986	20	40	0657	0239	359	20
50	0210	0667	1.001	10	50	0667	0210	316	10
5 0	+0.0181+	+0.0676—	—1.014+	19 0	11 0	—0.0676—	+0.0181—	—0.272+	13 0
10	0151	0683	1.025	50	10	0683	0151	227	50
20	0121	0689	1.034	40	20	0689	0121	182	40
30	0091	0694	1.041	30	30	0694	0091	137	30
40	0061	0697	1.045	20	40	0697	0061	092	20
50	0031	0699	1.048	10	50	0699	0031	046	10
6 0	+0.0000+	+0.0700—	—1.049+	18 0	12 0	—0.0700—	+0.0000—	—0.000+	12 0

Für α zwischen 12^h und 24^h gelten die Vorzeichen zur Rechten.

$\Delta\alpha_{1950.0} = \Delta\alpha_{1938.0} + a_1 \cdot \operatorname{tg}\delta \cdot \Delta\alpha^m + a_2 \cdot \frac{1}{15}\sec^2\delta \cdot \Delta\delta'$; $\quad \Delta\delta_{1950.0} = \Delta\delta_{1938.0} + d_1 \cdot \Delta\alpha^m$

$\Delta\alpha^m$ bedeutet die Rektaszensionsdifferenz in Zeitminuten, $\Delta\delta'$ ist die Deklinationsdifferenz in Winkelminuten.

Die Werte von $\operatorname{tg}\delta$ und $\frac{1}{15}\sec^2\delta$ sind auf S. 268* enthalten.

Reduktionsgrößen 1938

Reduktion vom mittleren Äquinoktium 1950.0 auf das jedesmalige wahre Äquinoktium

0ʰ Welt-Zeit	f	log g	G	0ʰ Welt-Zeit	f	log g	G
1938	s		h m s	1938	s		h m s
Jan. −3	−35.936	2.37001	11 55 37	Juli 1	−34.461	2.35189	11 54 4
+2	35.882	2.36936	11 55 36	6	34.411	2.35125	11 54 3
7	35.828	2.36871	11 55 36	11	34.361	2.35063	11 54 3
12	35.776	2.36808	11 55 37	16	34.313	2.35001	11 54 4
17	35.726	2.36747	11 55 39	21	34.266	2.34941	11 54 6
22	−35.678	2.36689	11 55 41	26	−34.221	2.34883	11 54 8
27	35.632	2.36633	11 55 44	31	34.178	2.34828	11 54 11
Febr. 1	35.588	2.36580	11 55 47	Aug. 5	34.137	2.34776	11 54 14
6	35.547	2.36529	11 55 50	10	34.098	2.34726	11 54 17
11	35.509	2.36481	11 55 54	15	34.061	2.34679	11 54 20
16	−35.473	2.36436	11 55 57	20	−34.026	2.34635	11 54 23
21	35.439	2.36395	11 55 59	25	33.993	2.34593	11 54 26
26	35.407	2.36356	11 56 1	30	33.962	2.34553	11 54 28
März 3	35.377	2.36319	11 56 3	Sept. 4	33.933	2.34515	11 54 29
8	35.349	2.36284	11 56 4	9	33.905	2.34480	11 54 30
13	−35.321	2.36251	11 56 3	14	−33.878	2.34445	11 54 30
18	35.295	2.36219	11 56 2	19	33.852	2.34412	11 54 29
23	35.269	2.36186	11 56 0	24	33.827	2.34379	11 54 28
28	35.242	2.36154	11 55 57	29	33.801	2.34347	11 54 25
April 2	35.215	2.36121	11 55 53	Okt. 4	33.776	2.34313	11 54 21
7	−35.188	2.36087	11 55 48	9	−33.749	2.34279	11 54 16
12	35.159	2.36052	11 55 42	14	33.721	2.34244	11 54 10
17	35.128	2.36014	11 55 35	19	33.692	2.34207	11 54 4
22	35.096	2.35975	11 55 28	24	33.660	2.34167	11 53 56
27	35.062	2.35933	11 55 20	29	33.627	2.34125	11 53 48
Mai 2	−35.026	2.35888	11 55 12	Nov. 3	−33.592	2.34079	11 53 40
7	34.987	2.35841	11 55 4	8	33.554	2.34031	11 53 31
12	34.947	2.35791	11 54 56	13	33.514	2.33980	11 53 23
17	34.904	2.35739	11 54 48	18	33.471	2.33925	11 53 14
22	34.860	2.35685	11 54 40	23	33.426	2.33868	11 53 6
27	−34.814	2.35628	11 54 33	28	−33.379	2.33807	11 52 58
Juni 1	34.766	2.35568	11 54 27	Dez. 3	33.329	2.33743	11 52 51
6	34.716	2.35507	11 54 21	8	33.279	2.33678	11 52 45
11	34.666	2.35444	11 54 16	13	33.227	2.33611	11 52 40
16	34.615	2.35381	11 54 11	18	33.174	2.33542	11 52 35
21	−34.564	2.35317	11 54 8	23	−33.120	2.33472	11 52 32
26	34.512	2.35253	11 54 5	28	33.067	2.33402	11 52 30
Juli 1	−34.461	2.35189	11 54 4	33	−33.014	2.33333	11 52 29

Die mit den vorstehend gegebenen Größen f, log g und G berechnete Reduktion vom mittleren Äquinoktium 1950.0 auf das wahre Äquinoktium der Epoche bedarf noch einer Verbesserung, die von dem Einfluß der Variatio saecularis herrührt und auf Seite 272* und 273* enthalten ist. Es wird somit: Red. in $\alpha = f + \frac{1}{15} g \sin(G + \alpha) \operatorname{tg} \delta$ + Korr. nach S. 272*

Red. in $\delta = g \cos(G + \alpha)$ + Korr. nach S. 273*

Korrektion der Reduktion vom mittleren Äquinoktium 1950.0 auf das jedesmalige wahre Äquinoktium (s. S. 271*), berechnet für 1938.0, mit Hinzufügung ihrer einjährigen Änderung.

Für Rektaszension (in 0.ˢ001)

α	δ +60°		+50°		+30°		+10°		−10°		−30°		−50°		−60°	
0ʰ	+39	−6	+27	−5	+14	−2	+5	−1	−2	0	−11	+2	−24	+4	−36	+6
1	+53	−9	+35	−6	+17	−3	+7	−1	0	0	−7	+1	−14	+2	−18	+3
2	+62	−10	+39	−6	+19	−3	+9	−1	+2	0	−3	0	−5	+1	−2	0
3	+60	−10	+37	−6	+18	−3	+9	−1	+4	−1	+1	0	+2	0	+8	−1
4	+48	−8	+29	−5	+14	−2	+7	−1	+4	−1	+2	0	+5	−1	+12	−2
5	+27	−4	+16	−3	+8	−1	+5	−1	+3	0	+2	0	+4	−1	+9	−1
6	+1	0	+1	0	+1	0	+1	0	+1	0	+2	0	+2	0	+2	0
7	−25	+4	−15	+2	−6	+1	−2	0	0	0	+1	0	−1	0	−5	+1
8	−46	+8	−27	+5	−12	+2	−5	+1	−1	0	+1	0	−1	0	−8	+1
9	−58	+10	−35	+6	−15	+3	−6	+1	−1	0	+3	0	+2	0	−5	+1
10	−60	+10	−37	+6	−16	+3	−6	+1	0	0	+5	−1	+8	−1	+6	−1
11	−51	+9	−32	+5	−15	+2	−5	+1	+3	0	+10	−2	+17	−3	+21	−4
12	−36	+6	−24	+4	−11	+2	−2	0	+5	−1	+14	−2	+27	−5	+39	−6
13	−18	+3	−14	+2	−7	+1	0	0	+7	−1	+17	−3	+35	−6	+53	−9
14	−2	0	−5	+1	−3	0	+2	0	+9	−1	+19	−3	+39	−6	+62	−10
15	+8	−1	+2	0	+1	0	+4	−1	+9	−1	+18	−3	+37	−6	+60	−10
16	+12	−2	+5	−1	+2	0	+4	−1	+7	−1	+14	−2	+29	−5	+48	−8
17	+9	−1	+4	−1	+2	0	+3	0	+5	−1	+8	−1	+16	−3	+27	−4
18	+2	0	+2	0	+2	0	+1	0	+1	0	+1	0	+1	0	+1	0
19	−5	+1	−1	0	+1	0	0	0	−2	0	−6	+1	−15	+2	−25	+4
20	−8	+1	−1	0	+1	0	−1	0	−5	+1	−12	+2	−27	+5	−46	+8
21	−5	+1	+2	0	+3	0	−1	0	−6	+1	−15	+3	−35	+6	−58	+10
22	+6	−1	+8	−1	+5	−1	0	0	−6	+1	−16	+3	−37	+6	−60	+10
23	+21	−4	+17	−3	+10	−2	+3	0	−5	+1	−15	+2	−32	+5	−51	+9
24	+39	−6	+27	−5	+14	−2	+5	−1	−2	0	−11	+2	−24	+4	−36	+6

Korrektion der Reduktion vom mittleren Äquinoktium 1950.0 auf das jedesmalige wahre Äquinoktium (s. S. 271*), berechnet für 1938.0, mit Hinzufügung ihrer einjährigen Änderung.

Für Deklination (in 0″.01)

α	δ															
	+60°		+50°		+30°		+10°		−10°		−30°		−50°		−60°	
0h	−1	0	−1	0	−1	0	−1	0	−1	0	−1	0	−1	0	−1	0
1	−11	+2	−10	+2	−10	+2	−9	+2	−9	+1	−8	+1	−8	+1	−7	+1
2	−23	+4	−21	+3	−19	+3	−17	+3	−16	+3	−15	+2	−12	+2	−11	+2
3	−35	+6	−32	+5	−27	+5	−24	+4	−22	+4	−19	+3	−15	+2	−11	+2
4	−46	+8	−41	+7	−34	+6	−30	+5	−26	+4	−22	+4	−16	+3	−10	+2
5	−54	+9	−47	+8	−39	+6	−34	+6	−29	+5	−24	+4	−16	+3	−9	+1
6	−57	+9	−49	+8	−40	+7	−35	+6	−30	+5	−24	+4	−16	+3	−8	+1
7	−54	+9	−47	+8	−39	+6	−33	+6	−29	+5	−23	+4	−15	+3	−8	+1
8	−46	+8	−40	+7	−34	+6	−29	+5	−26	+4	−22	+4	−15	+3	−9	+2
9	−34	+6	−31	+5	−26	+4	−24	+4	−21	+4	−18	+3	−14	+2	−10	+2
10	−22	+4	−20	+3	−18	+3	−16	+3	−15	+2	−14	+2	−11	+2	−10	+2
11	−9	+2	−9	+1	−8	+1	−8	+1	−8	+1	−7	+1	−7	+1	−6	+1
12	+1	0	+1	0	+1	0	+1	0	+1	0	+1	0	+1	0	+1	0
13	+7	−1	+8	−1	+8	−1	+9	−1	+9	−2	+10	−2	+10	−2	+11	−2
14	+11	−2	+12	−2	+15	−2	+16	−3	+17	−3	+19	−3	+21	−3	+23	−4
15	+11	−2	+15	−2	+19	−3	+22	−4	+24	−4	+27	−5	+32	−5	+35	−6
16	+10	−2	+16	−3	+22	−4	+26	−4	+30	−5	+34	−6	+41	−7	+46	−8
17	+9	−1	+16	−3	+24	−4	+29	−5	+34	−6	+39	−6	+47	−8	+54	−9
18	+8	−1	+16	−3	+24	−4	+30	−5	+35	−6	+40	−7	+49	−8	+57	−9
19	+8	−1	+15	−3	+23	−4	+29	−5	+33	−6	+39	−6	+47	−8	+54	−9
20	+9	−2	+15	−3	+22	−4	+26	−4	+29	−5	+34	−6	+40	−7	+46	−7
21	+10	−2	+14	−2	+18	−3	+21	−4	+24	−4	+26	−4	+31	−5	+34	−6
22	+10	−2	+11	−2	+14	−2	+15	−2	+16	−3	+18	−3	+20	−3	+22	−4
23	+6	−1	+7	−1	+7	−1	+8	−1	+8	−1	+8	−1	+9	−1	+9	−2
24	+1	0	+1	0	+1	0	+1	0	+1	0	+1	0	+1	0	+1	0

α	0h, 12h		1h, 13h		2h, 14h		3h, 15h		4h, 16h		5h, 17h		α
m	+A−	+D−	+A−	+D−	+A−	+D−	+A−	+D−	+A−	+D−	+A−	+D−	m
	s	"	s	"	s	"	s	"	s	"	s	"	
0	0.022	240.52	4.171	232.24	8.036	208.13	11.353	169.84	13.897	119.98	15.494	61.94	0
1	092	240.51	239	231.96	097	207.60	402	169.09	932	119.07	512	60.93	1
2	162	240.50	306	231.68	157	207.07	451	168.34	13.966	118.16	529	59.91	2
3	231	240.49	373	231.40	217	206.54	500	167.59	14.000	117.24	546	58.89	3
4	301	240.47	440	231.11	277	206.00	549	166.84	034	116.32	563	57.87	4
5	371	240.45	508	230.82	337	205.46	598	166.08	068	115.40	580	56.85	5
6	441	240.42	575	230.52	396	204.91	646	165.32	102	114.48	596	55.83	6
7	511	240.39	642	230.22	456	204.36	694	164.56	135	113.56	612	54.81	7
8	581	240.36	709	229.92	515	203.80	742	163.80	168	112.63	628	53.79	8
9	651	240.32	776	229.61	574	203.24	789	163.03	201	111.70	644	52.77	9
10	0.721	240.28	4.842	229.29	8.633	202.68	11.836	162.26	14.233	110.77	15.659	51.75	10
11	791	240.23	909	228.97	692	202.11	883	161.48	265	109.84	674	50.72	11
12	861	240.17	4.975	228.65	751	201.54	930	160.70	297	108.91	689	49.69	12
13	0.931	240.11	5.042	228.32	810	200.97	11.977	159.92	328	107.97	703	48.67	13
14	1.001	240.05	108	227.99	868	200.39	12.023	159.13	359	107.03	717	47.64	14
15	070	239.98	175	227.65	926	199.81	070	158.34	390	106.09	731	46.61	15
16	140	239.91	241	227.31	8.984	199.22	116	157.55	421	105.15	744	45.58	16
17	210	239.83	307	226.96	9.042	198.63	162	156.75	451	104.20	757	44.55	17
18	280	239.75	373	226.61	100	198.03	207	155.95	481	103.25	770	43.52	18
19	349	239.66	439	226.26	158	197.43	252	155.15	511	102.30	783	42.49	19
20	1.419	239.57	5.504	225.90	9.215	196.83	12.297	154.35	14.541	101.35	15.795	41.45	20
21	489	239.48	570	225.54	272	196.23	342	153.54	570	100.40	807	40.42	21
22	559	239.38	635	225.17	329	195.62	387	152.73	599	99.45	818	39.39	22
23	628	239.28	701	224.80	386	195.01	431	151.92	628	98.49	829	38.35	23
24	698	239.17	766	224.43	442	194.39	475	151.11	657	97.53	840	37.31	24
25	768	239.06	832	224.05	499	193.77	519	150.29	685	96.57	851	36.27	25
26	837	238.94	897	223.66	555	193.15	563	149.47	713	95.61	861	35.23	26
27	907	238.82	5.962	223.27	611	192.52	606	148.65	741	94.65	871	34.19	27
28	1.976	238.69	6.027	222.88	667	191.89	649	147.82	768	93.68	881	33.15	28
29	2.046	238.56	092	222.48	723	191.26	692	146.99	795	92.71	891	32.11	29
30	2.115	238.42	6.156	222.08	9.778	190.62	12.735	146.16	14.822	91.74	15.900	31.07	30
31	184	238.28	221	221.68	834	189.98	777	145.33	849	90.77	909	30.03	31
32	253	238.13	285	221.27	889	189.33	819	144.49	875	89.80	918	28.99	32
33	323	237.98	349	220.85	944	188.68	861	143.65	901	88.83	926	27.95	33
34	392	237.83	413	220.43	9.999	188.03	903	142.81	927	87.85	934	26.91	34
35	461	237.67	477	220.01	10.054	187.37	944	141.96	952	86.87	942	25.87	35
36	530	237.51	541	219.59	108	186.71	12.985	141.11	14.977	85.89	949	24.82	36
37	599	237.34	605	219.16	162	186.05	13.026	140.26	15.002	84.91	956	23.78	37
38	668	237.17	669	218.73	216	185.38	067	139.41	027	83.93	963	22.74	38
39	737	236.99	732	218.29	270	184.71	107	138.55	051	82.95	969	21.69	39
40	2.806	236.81	6.796	217.85	10.323	184.04	13.147	137.69	15.075	81.96	15.975	20.64	40
41	875	236.62	859	217.40	377	183.36	187	136.83	099	80.97	981	19.60	41
42	2.944	236.43	922	216.95	430	182.68	227	135.97	122	79.98	987	18.55	42
43	3.012	236.24	6.985	216.49	483	182.00	266	135.10	145	78.99	992	17.50	43
44	081	236.04	7.048	216.03	536	181.31	305	134.23	168	78.00	15.997	16.45	44
45	150	235.83	111	215.57	589	180.62	344	133.36	190	77.01	16.002	15.41	45
46	218	235.62	174	215.10	641	179.92	383	132.48	212	76.02	006	14.36	46
47	287	235.41	236	214.63	693	179.22	421	131.60	234	75.02	010	13.31	47
48	355	235.19	299	214.15	745	178.52	459	130.72	256	74.02	014	12.26	48
49	424	234.97	361	213.67	797	177.82	497	129.84	277	73.02	017	11.22	49
50	3.492	234.74	7.423	213.19	10.848	177.11	13.535	128.96	15.298	72.02	16.020	10.17	50
51	560	234.51	485	212.70	900	176.40	572	128.07	319	71.02	023	9.12	51
52	628	234.28	547	212.21	10.951	175.68	609	127.18	340	70.01	026	8.07	52
53	696	234.05	609	211.71	11.002	174.96	646	126.29	360	69.01	028	7.02	53
54	764	233.80	670	211.21	053	174.24	683	125.40	380	68.00	030	5.97	54
55	832	233.55	731	210.71	104	173.52	719	124.50	400	66.99	031	4.92	55
56	900	233.29	792	210.20	154	172.79	755	123.60	419	65.98	032	3.87	56
57	3.968	233.03	853	209.69	204	172.06	791	122.70	438	64.97	033	2.83	57
58	4.036	232.77	914	209.17	254	171.32	827	121.80	457	63.96	034	1.78	58
59	103	232.51	7.975	208.65	304	170.58	862	120.89	476	62.95	034	0.73	59
60	4.171	232.24	8.036	208.13	11.353	169.84	13.897	119.98	15.494	61.94	16.034	—	60

α	6h, 18h		7h, 19h		8h, 20h		9h, 21h		10h, 22h		11h, 23h		α
m	+A−	−D+	+A−	−D+	+A−	−D+	+A−	−D+	+A−	−D+	+A−	−D+	m
	s	"	s	"	s	"	s	"	s	"	s	"	
0	16.034	0.32	15.483	62.56	13.876	120.54	11.323	170.30	7.999	208.46	4.129	232.40	0
1	034	1.37	464	63.58	841	121.45	273	171.04	938	208.98	4.062	232.67	1
2	034	2.42	445	64.59	805	122.35	223	171.77	877	209.50	3.994	232.93	2
3	033	3.47	426	65.60	769	123.25	173	172.50	816	210.01	926	233.19	3
4	032	4.52	407	66.61	733	124.15	123	173.23	755	210.52	858	233.45	4
5	031	5.57	388	67.62	697	125.05	073	173.96	694	211.03	790	233.70	5
6	029	6.62	368	68.63	661	125.95	11.022	174.68	633	211.53	722	233.94	6
7	027	7.67	348	69.63	624	126.84	10.971	175.40	571	212.03	654	234.18	7
8	024	8.72	328	70.63	587	127.73	920	176.12	509	212.52	586	234.42	8
9	021	9.77	307	71.63	550	128.62	869	176.83	447	213.01	518	234.65	9
10	16.018	10.82	15.286	72.63	13.512	129.50	10.817	177.54	7.385	213.49	3.450	234.88	10
11	015	11.87	265	73.63	474	130.38	765	178.25	323	213.97	382	235.11	11
12	011	12.91	243	74.63	436	131.26	713	178.95	260	214.45	313	235.33	12
13	007	13.96	221	75.63	398	132.14	661	179.65	198	214.92	245	235.54	13
14	16.003	15.01	199	76.63	359	133.02	609	180.35	136	215.39	176	235.75	14
15	15.999	16.06	177	77.62	320	133.89	556	181.04	073	215.86	107	235.96	15
16	994	17.10	154	78.61	281	134.76	503	181.73	7.010	216.32	3.038	236.16	16
17	989	18.15	131	79.60	242	135.63	450	182.42	6.947	216.78	2.970	236.36	17
18	984	19.20	108	80.59	202	136.50	397	183.10	884	217.23	901	236.55	18
19	978	20.25	084	81.58	162	137.36	344	183.78	821	217.68	832	236.74	19
20	15.972	21.29	15.060	82.56	13.122	138.22	10.290	184.45	6.757	218.12	2.763	236.92	20
21	965	22.34	036	83.55	082	139.08	236	185.12	694	218.56	694	237.10	21
22	958	23.38	15.012	84.53	042	139.93	182	185.79	630	218.99	625	237.27	22
23	951	24.42	14.987	85.51	13.001	140.78	128	186.46	566	219.42	556	237.44	23
24	944	25.46	962	86.49	12.960	141.63	074	187.12	502	219.85	487	237.61	24
25	936	26.51	937	87.47	919	142.48	10.020	187.78	438	220.27	418	237.77	25
26	928	27.55	911	88.45	877	143.33	9.965	188.43	374	220.69	349	237.92	26
27	920	28.60	885	89.43	835	144.17	910	189.08	310	221.11	280	238.07	27
28	912	29.64	859	90.40	793	145.01	855	189.73	245	221.52	210	238.22	28
29	903	30.68	832	91.37	751	145.84	800	190.37	181	221.93	141	238.36	29
30	15.894	31.72	14.805	92.34	12.708	146.67	9.745	191.01	6.117	222.33	2.072	238.50	30
31	885	32.76	778	93.31	665	147.50	689	191.65	6.052	222.73	2.003	238.63	31
32	875	33.80	751	94.28	622	148.33	633	192.28	5.987	223.13	1.933	238.76	32
33	865	34.84	723	95.24	579	149.15	577	192.91	922	223.52	864	238.88	33
34	855	35.88	695	96.20	536	149.97	521	193.53	857	223.90	795	239.00	34
35	845	36.91	667	97.16	492	150.79	464	194.15	792	224.28	725	239.12	35
36	834	37.94	639	98.12	448	151.61	407	194.77	726	224.66	655	239.23	36
37	823	38.98	610	99.08	404	152.42	350	195.38	661	225.03	586	239.34	37
38	811	40.02	581	100.04	359	153.23	293	195.99	596	225.40	516	239.44	38
39	799	41.05	552	100.99	314	154.04	236	196.60	530	225.76	446	239.54	39
40	15.787	42.08	14.523	101.94	12.269	154.85	9.179	197.20	5.464	226.12	1.376	239.63	40
41	775	43.12	493	102.89	224	155.65	122	197.80	398	226.48	307	239.72	41
42	762	44.15	463	103.84	179	156.45	065	198.40	332	226.83	237	239.80	42
43	749	45.18	433	104.79	133	157.25	9.007	198.99	266	227.18	167	239.88	43
44	736	46.21	402	105.73	087	158.04	8.949	199.58	200	227.52	097	239.95	44
45	722	47.24	371	106.67	12.041	158.83	891	200.16	134	227.86	1.028	240.02	45
46	708	48.27	340	107.61	11.995	159.62	833	200.74	068	228.19	0.958	240.08	46
47	694	49.30	309	108.55	949	160.40	774	201.32	5.001	228.52	888	240.14	47
48	680	50.32	277	109.48	902	161.18	715	201.89	4.934	228.84	818	240.20	48
49	665	51.35	245	110.41	855	161.96	656	202.46	868	229.16	748	240.25	49
50	15.650	52.38	14.213	111.34	11.808	162.73	8.597	203.02	4.801	229.48	0.678	240.30	50
51	635	53.40	180	112.27	760	163.50	538	203.58	734	229.79	608	240.34	51
52	619	54.42	147	113.20	712	164.27	479	204.14	667	230.10	538	240.38	52
53	603	55.44	114	114.13	664	165.03	420	204.69	600	230.40	468	240.41	53
54	587	56.46	081	115.05	616	165.79	360	205.24	533	230.70	398	240.44	54
55	570	57.48	048	115.97	568	166.55	300	205.79	466	231.00	328	240.47	55
56	553	58.50	14.014	116.89	519	167.31	240	206.33	399	231.29	258	240.49	56
57	536	59.52	13.980	117.81	470	168.06	180	206.87	332	231.57	188	240.51	57
58	519	60.54	946	118.72	421	168.81	120	207.40	265	231.85	118	240.52	58
59	501	61.55	911	119.63	372	169.56	8.060	207.93	197	232.13	0.048	240.52	59
60	15.483	62.56	13.876	120.54	11.323	170.30	7.999	208.46	4.129	232.40	—	240.52	60

Reduktionsgrößen 1938

Übertragung von Sternörtern vom mittleren Äquinoktium 1938.0 auf das Normaläquinoktium 1950.0

α	B	α	α	B	α
h m	s	h m	h m	s	h m
0 0	+36.878	12 0	6 0	+36.878	18 0
10	36.878	10	10	36.878	10
20	36.877	20	20	36.879	20
30	36.877	30	30	36.880	30
40	36.876	40	40	36.880	40
50	36.876	50	50	36.880	50
1 0	+36.876	13 0	7 0	+36.880	19 0
10	36.875	10	10	36.881	10
20	36.875	20	20	36.881	20
30	36.875	30	30	36.881	30
40	36.874	40	40	36.882	40
50	36.874	50	50	36.882	50
2 0	+36.874	14 0	8 0	+36.882	20 0
10	36.874	10	10	36.882	10
20	36.874	20	20	36.882	20
30	36.873	30	30	36.882	30
40	36.873	40	40	36.883	40
50	36.873	50	50	36.883	50
3 0	+36.873	15 0	9 0	+36.883	21 0
10	36.873	10	10	36.883	10
20	36.873	20	20	36.883	20
30	36.873	30	30	36.882	30
40	36.874	40	40	36.882	40
50	36.874	50	50	36.882	50
4 0	+36.874	16 0	10 0	+36.882	22 0
10	36.874	10	10	36.882	10
20	36.874	20	20	36.882	20
30	36.875	30	30	36.881	30
40	36.875	40	40	36.881	40
50	36.875	50	50	36.881	50
5 0	+36.876	17 0	11 0	+36.880	23 0
10	36.876	10	10	36.880	10
20	36.876	20	20	36.880	20
30	36.877	30	30	36.879	30
40	36.877	40	40	36.879	40
50	36.878	50	50	36.878	50
6 0	+36.878	18 0	12 0	+36.878	24 0

C	ΔC	P	C	ΔC	P
s	s			s	
0	e 0.000	e 0.0000	350	e 0.076	e 0.1909
10	000	0055	360	082	1963
20	000	0109	370	089	2018
30	000	0164	380	097	2072
40	000	0218	390	104	2127
50	e 0.000	e 0.0273	400	e 0.113	e 0.2181
60	000	0327	410	121	2236
70	001	0382	420	131	2290
80	001	0436	430	140	2345
90	001	0491	440	150	2399
100	e 0.002	e 0.0545	450	e 0.161	e 0.2454
110	002	0600	460	172	2508
120	003	0654	470	183	2563
130	004	0709	480	195	2617
140	005	0764	490	207	2672
150	e 0.006	e 0.0818	500	e 0.220	e 0.2726
160	007	0873	510	234	2781
170	009	0927	520	248	2835
180	010	0982	530	262	2890
190	012	1036	540	277	2944
200	e 0.014	e 0.1091	550	e 0.293	e 0.2999
210	016	1145	560	309	3053
220	019	1200	570	326	3107
230	022	1254	580	344	3162
240	025	1309	590	362	3216
250	e 0.028	e 0.1363	600	e 0.380	e 0.3271
260	031	1418	610	400	3325
270	035	1473	620	420	3380
280	039	1527	630	440	3434
290	043	1582	640	462	3489
300	e 0.048	e 0.1636	650	e 0.484	e 0.3543
310	053	1691	660	506	3598
320	058	1745	670	529	3652
330	063	1800	680	553	3707
340	069	1854	690	578	3761
350	e 0.076	e 0.1909	700	e 0.604	e 0.3815

e bedeutet: Vorzeichen entgegengesetzt dem Vorzeichen des Arguments.

$$\alpha_{1950} = \alpha_{1938} + B + C + \Delta C, \text{ wobei } C = A.\ \mathrm{tg}\,(\delta_{1938} + D)$$
$$\delta_{1950} = \delta_{1938} + D + R, \text{ wobei } R = A.\ P$$

A und *D* sind aus der Tafel S. 274* u. 275* mit dem Argument α_{1938} zu entnehmen. Für die Werte von α zwischen 0^h und 12^h gelten die Vorzeichen zur Linken, für die Werte von α zwischen 12^h und 24^h die Vorzeichen zur Rechten. *B*, Δ*C* und *P* sind in der obenstehenden Tafel enthalten. Die Vorzeichen von Δ*C* und *P* sind dem Vorzeichen von *C* entgegengesetzt.

Finsternisse, Sternbedeckungen, Mösting A, Trabanten

Konstellationen, Hilfstafeln

1938

Im Jahre 1938 finden zwei Sonnenfinsternisse und zwei Mondfinsternisse statt.

I. Totale Mondfinsternis 1938 Mai 14 unsichtbar in Berlin.

Opposition in Rektaszension . . . . Mai 14,	8ʰ 50ᵐ 54ˢ.0	Welt-Zeit
Rektaszension des Mondes	15ʰ 21ᵐ 59ˢ.88	
Stündliche Änderung	2 7.84	
Rektaszension der Sonne	3 21 59.88	
Stündliche Änderung	9.84	
Deklination des Mondes	−18° 52′ 21″.4	
Stündliche Änderung	− 4 59.9	
Deklination der Sonne	+18 30 9.1	
Stündliche Änderung	+ 36.6	
Äquatorialhorizontalparallaxe des Mondes .	54′ 55″.0	
,, der Sonne . .	8.7	
Halbmesser des Mondes	14′ 57″.1	
,, der Sonne	15 49.4	
Eintritt des Mondes in den Halbschatten . . . Mai 14,	5ʰ 44ᵐ.3	Welt-Zeit
Eintritt des Mondes in den Kernschatten . . . ,,	6 56.6	,,
Anfang der totalen Verfinsterung . . . . ,,	8 18.1	,,
Mitte der Finsternis . . . . ,,	8 43.5	,,
Ende der totalen Verfinsterung . . . . ,,	9 9.0	,,
Austritt des Mondes aus dem Kernschatten . . ,,	10 30.7	,,
Austritt des Mondes aus dem Halbschatten . . ,,	11 43.3	,,

Der Mond steht zu den Zeiten der ersten und letzten Berührung mit dem Kernschatten im Zenit der Orte, deren geographische Lage ist:

106° 1′ westliche Länge von Greenwich, 18° 43′ südliche Breite
157° 47′ ,, ,, ,, ,, 19° 1′ ,, ,,

Positionswinkel des Eintritts . . . . = 76°
,, ,, Austritts . . . . = 302°
Größe der Finsternis in Einheiten des Monddurchmessers . . = 1.102

Der Anfang der Finsternis ist sichtbar im Atlantischen Ozean mit Ausnahme seines östlichen Teiles, in Nordamerika mit Ausnahme des äußersten Nordens, in Südamerika, im südlichen Eismeer, im östlichen Teil von Australien und im Stillen Ozean mit Ausnahme seines nordwestlichen Teiles. Das Ende ist sichtbar im mittleren und westlichen Teil von Nordamerika, im Westen von Südamerika, im südlichen Eismeer, im Stillen Ozean, in Australien und im äußersten Nordosten von Asien.

II. Totale Sonnenfinsternis 1938 Mai 29 unsichtbar in Berlin.

Konjunktion in Rektaszension	Mai 29, 13ʰ 43ᵐ 7ˢ.0 Welt-Zeit
Rektaszension des Mondes	4ʰ 22ᵐ 53ˢ.26
Stündliche Änderung	2 39.91
Rektaszension der Sonne	4 22 53.26
Stündliche Änderung	10.18
Deklination des Mondes	+20° 35′ 46″.2
Stündliche Änderung	+ 2 45.8
Deklination der Sonne	+21 34 13.8
Stündliche Änderung	+ 23.5
Äquatorialhorizontalparallaxe des Mondes .	1° 0′ 50″.8
„ der Sonne . .	8.7
Halbmesser des Mondes	16′ 34″.0
„ der Sonne	15 46.6

	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite
	h m	° ′	° ′
Anfang der Finsternis.	Mai 29, 11 46.2	68 23	−39 19
Beginn der zentralen Verfinsterung.	„ 13 22.2	50 21	−65 40
Zentrale Verfinsterung im wahren Mittag	„ 13 43.1	26 29	−53 27
Ende der zentralen Verfinsterung .	„ 14 17.6	351 27	−61 20
Ende der Finsternis	„ 15 53.5	343 37	−32 31

Verlauf der Zentrallinie

Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite	Dauer d. Totalität	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite	Dauer d. Totalität
h m	° ′	° ′	m s	h m	° ′	° ′	m s
13 22.2	50 21	−65 40	—	13 50	21 56.1	−52 45.4	4 4.0
13 25	42 21.1	−60 4.6	3 32.9	13 55	18 37.2	−52 37.6	4 3.1
13 30	36 33.2	−56 57.5	3 46.4	14 0	15 8.8	−52 49.0	4 0.2
13 35	32 17.5	−55 9.3	3 54.6	14 5	11 19.5	−53 23.6	3 55.0
13 40	28 37.1	−53 58.1	3 59.9	14 10	6 47.7	−54 31.9	3 46.9
13 45	25 13.4	−53 11.8	4 3.0	14 15	0 24.7	−56 51.5	3 33.3
13 50	21 56.1	−52 45.4	4 4.0	14 17.6	351 27	−61 20	—

Die Finsternis ist sichtbar im südöstlichsten Teil des Stillen Ozeans, im Süden und Südosten Südamerikas, im südlichen Teil des Atlantischen Ozeans und im äußersten Süden Afrikas.

Elemente der totalen Sonnenfinsternis 1938 Mai 29

Welt-Zeit	x	y	log sin d	log cos d	μ	$l^{(a)}$	$l^{(i)}$
h m					° ′ ″		
11 40	−1.184374	−1.044074	9.565221	9.968500	355 42 13.3	+0.532876	−0.012976
50	1.088191	1.037465	9.565241	9.968496	358 12 13.4	0.532874	0.012978
12 0	−0.992005	−1.030861	9.565262	9.968493	0 42 13.5	+0.532872	−0.012980
10	0.895815	1.024262	9.565282	9.968490	3 12 13.6	0.532869	0.012983
20	0.799622	1.017669	9.565303	9.968487	5 42 13.7	0.532865	0.012987
30	0.703425	1.011081	9.565323	9.968484	8 12 13.8	0.532861	0.012991
40	0.607226	1.004498	9.565344	9.968480	10 42 13.9	0.532856	0.012996
50	0.511024	0.997921	9.565365	9.968477	13 12 14.0	0.532850	0.013002
13 0	−0.414819	−0.991349	9.565385	9.968474	15 42 14.1	+0.532844	−0.013008
10	0.318612	0.984782	9.565406	9.968471	18 12 14.2	0.532837	0.013015
20	0.222403	0.978221	9.565426	9.968468	20 42 14.3	0.532829	0.013022
30	0.126193	0.971666	9.565447	9.968465	23 12 14.4	0.532820	0.013031
40	−0.029980	0.965116	9.565468	9.968461	25 42 14.4	0.532811	0.013040
50	+0.066233	0.958571	9.565488	9.968458	28 12 14.5	0.532801	0.013050
14 0	+0.162447	−0.952032	9.565509	9.968455	30 42 14.6	+0.532790	−0.013061
10	0.258663	0.945497	9.565529	9.968452	33 12 14.7	0.532779	0.013072
20	0.354879	0.938968	9.565550	9.968449	35 42 14.8	0.532767	0.013084
30	0.451095	0.932445	9.565570	9.968446	38 12 14.9	0.532754	0.013097
40	0.547311	0.925927	9.565591	9.968442	40 42 15.0	0.532741	0.013110
50	0.643527	0.919415	9.565612	9.968439	43 12 15.1	0.532727	0.013124
15 0	+0.739742	−0.912908	9.565632	9.968436	45 42 15.2	+0.532712	−0.013139
10	0.835956	0.906407	9.565653	9.968433	48 12 15.3	0.532696	0.013154
20	0.932169	0.899911	9.565673	9.968429	50 42 15.4	0.532680	0.013170
30	1.028381	0.893420	9.565694	9.968426	53 12 15.5	0.532663	0.013187
40	1.124591	0.886936	9.565715	9.968423	55 42 15.6	0.532645	0.013205
50	1.220799	0.880458	9.565735	9.968419	58 12 15.7	0.532627	0.013223
16 0	+1.317005	−0.873985	9.565756	9.968416	60 42 15.8	+0.532608	−0.013242

Welt-Zeit	x'	y'	log tang $f^{(a)}$	log tang $f^{(i)}$
h m				
11 0	+0.0096161	+0.0006633	7.66387	7.66170
12 0	0.0096188	0.0006601	7.66387	7.66170
13 0	0.0096206	0.0006569	7.66387	7.66170
14 0	0.0096215	0.0006537	7.66386	7.66169
15 0	0.0096214	0.0006504	7.66386	7.66169
16 0	+0.0096205	+0.0006470	7.66386	7.66169

III. Totale Mondfinsternis 1938 November 7—8
sichtbar in Berlin.

Opposition in Rektaszension	November 7, 22^h 32^m 12^s.2	Welt-Zeit
Rektaszension des Mondes	2^h 49^m 35^s.62	
Stündliche Änderung	2 23.87	
Rektaszension der Sonne	14 49 35.62	
Stündliche Änderung	10.00	
Deklination des Mondes	+16° 34′ 27″.2	
Stündliche Änderung	+ 7 12.4	
Deklination der Sonne	—16 18 0.7	
Stündliche Änderung	— 0 44.2	
Äquatorialhorizontalparallaxe des Mondes	58′ 54″.0	
„ der Sonne	8.9	
Halbmesser des Mondes	16′ 2″.2	
„ der Sonne	16 8.6	
Eintritt des Mondes in den Halbschatten . November 7,	19^h 39^m.0	Welt-Zeit
Eintritt des Mondes in den Kernschatten „	20 40.8	„
Anfang der totalen Verfinsterung . . . . „	21 45.0	„
Mitte der Finsternis . . . . „	22 26.2	„
Ende der totalen Verfinsterung . . . . . „	23 7.5	„
Austritt des Mondes aus dem Kernschatten „	8, 0 11.9	„
Austritt des Mondes aus dem Halbschatten „	1 13.9	„

Der Mond steht zu den Zeiten der ersten und letzten Berührung mit dem Kernschatten im Zenit der Orte, deren geographische Lage ist:

315° 18′ westliche Länge von Greenwich, 16° 21′ nördliche Breite
6° 6′ „ „ „ „ 16° 46′ „ „

Positionswinkel des Eintritts . . . . = 94°
„ „ Austritts . . . . =243°

Größe der Finsternis in Einheiten des Monddurchmessers . . =1.359

Der Anfang der Finsternis ist sichtbar in Europa, in Asien, im Westen Australiens, im Indischen Ozean, in Afrika, im Atlantischen Ozean, im nördlichen Eismeer, im äußersten Nordosten von Nordamerika und im äußersten Osten von Südamerika. Das Ende ist sichtbar im mittleren und westlichen Teil von Asien, im westlichen Teil des Indischen Ozeans, in Europa, in Afrika, im Atlantischen Ozean, im nördlichen Eismeer, in Nordamerika, mit Ausnahme des äußersten Westens und Nordwestens, und in Südamerika.

IV. Partielle Sonnenfinsternis 1938 November 21—22 unsichtbar in Berlin.

Konjunktion in Rektaszension . . .	November 21, $23^h\,36^m\,29^s.3$ Welt-Zeit	
Rektaszension des Mondes		$15^h\,47^m\,9^s.31$
Stündliche Änderung		2 11.70
Rektaszension der Sonne		15 47 9.31
Stündliche Änderung		10.49
Deklination des Mondes		$-18°\,54'\,43''.2$
Stündliche Änderung		— 4 3.0
Deklination der Sonne		—19 56 34.3
Stündliche Änderung		— 33.0
Äquatorialhorizontalparallaxe des Mondes		$55'\,35''.1$
,, der Sonne		8.9
Halbmesser des Mondes		$15'\,8''.0$
,, der Sonne		16 11.6

	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite
	h m	° ′	° ′
Beginn der Finsternis . . .	November 21, 21 45.0	216 2	+48 0
Größte Phase	,, 21, 23 52.0	162 3	+68 57
Ende der Finsternis	,, 22, 1 59.1	138 25	+35 41

Größte Phase der Finsternis in Einheiten des Sonnendurchmessers = 0.778.

Die Finsternis ist sichtbar im Nordosten Asiens, im nördlichen Teil des Stillen Ozeans und im Nordwesten Nordamerikas.

Elemente der partiellen Sonnenfinsternis 1938 November 21—22

Welt-Zeit		x	y	log sin d	log cos d	μ			l(a)
h	m					°	′	″	
21	40	−1.003991	+1.237881	9.532552n	9.973183	148	31	9.0	+0.564834
	50	0.917808	1.227368	9.532583n	9.973179	151	1	8.2	0.564858
22	0	−0.831625	+1.216861	9.532615n	9.973175	153	31	7.4	+0.564883
	10	0.745440	1.206358	9.532646n	9.973171	156	1	6.6	0.564907
	20	0.659253	1.195861	9.532678n	9.973167	158	31	5.8	0.564930
	30	0.573065	1.185368	9.532709n	9.973163	161	1	5.1	0.564953
	40	0.486876	1.174880	9.532740n	9.973158	163	31	4.3	0.564975
	50	0.400685	1.164396	9.532772n	9.973154	166	1	3.5	0.564996
23	0	−0.314495	+1.153918	9.532803n	9.973150	168	31	2.8	+0.565017
	10	0.228304	1.143445	9.532834n	9.973146	171	1	2.0	0.565037
	20	0.142112	1.132978	9.532866n	9.973142	173	31	1.2	0.565057
	30	−0.055920	1.122515	9.532897n	9.973138	176	1	0.5	0.565076
	40	+0.030272	1.112057	9.532928n	9.973134	178	30	59.7	0.565094
	50	0.116464	1.101604	9.532960n	9.973130	181	0	58.9	0.565112
0	0	+0.202656	+1.091156	9.532991n	9.973126	183	30	58.1	+0.565130
	10	0.288847	1.080713	9.533022n	9.973122	186	0	57.3	0.565147
	20	0.375039	1.070276	9.533054n	9.973118	188	30	56.5	0.565163
	30	0.461229	1.059843	9.533085n	9.973114	191	0	55.8	0.565179
	40	0.547419	1.049415	9.533117n	9.973109	193	30	55.0	0.565194
	50	0.633608	1.038991	9.533149n	9.973105	196	0	54.2	0.565208
1	0	+0.719796	+1.028573	9.533180n	9.973101	198	30	53.4	+0.565222
	10	0.805982	1.018159	9.533211n	9.973097	201	0	52.6	0.565235
	20	0.892168	1.007750	9.533243n	9.973093	203	30	51.9	0.565248
	30	0.978352	0.997346	9.533274n	9.973089	206	0	51.1	0.565260
	40	1.064533	0.986946	9.533305n	9.973085	208	30	50.3	0.565272
	50	1.150714	0.976552	9.533337n	9.973081	211	0	49.6	0.565283
2	0	+1.236892	+0.966162	9.533368n	9.973077	213	30	48.8	+0.565293

Welt-Zeit		x′	y′	log tang f(a)
h	m			
21	0	+0.0086171	−0.0010534	7.67531
22	0	0.0086184	0.0010505	7.67531
23	0	0.0086191	0.0010475	7.67532
0	0	0.0086192	0.0010445	7.67532
1	0	0.0086187	0.0010416	7.67532
2	0	+0.0086177	−0.0010387	7.67533

Sternbedeckungen 1938

Ein- und Austritte für Berlin-Babelsberg

Tag	Stern	Größe	Phase	Welt-Zeit	*P*	*a*	*b*	Alter des Mondes
1938		m		h m	°	m	m	d
Jan. 6	*BD* —3° 5505	7.5	E.	18 33.0	64	—0.6	—0.7	5.0
7	16 Piscium	5.6	E.	19 22.1	91	—0.8	—1.6	6.0
11	54 Arietis	6.5	E.	18 27.2	16	—0.7	+3.7	10.0
11	*BD* +18° 432	6.7	E.	21 7.6	51	—1.2	+0.4	10.1
11	*BD* +18° 459	7.3	E.	23 48.8	69	—0.5	—0.9	10.2
12	ω Tauri	4.8	E.	21 46.7	141	—1.0	—3.3	11.1
12	*BD* +20° 740	6.9	E.	23 47.3	36	—1.1	+0.6	11.2
12	*BD* +20° 744	6.1	E.	23 57.4	89	—0.6	—1.3	11.2
13	*BD* +20° 751	5.9	E.	0 33.2	52	—0.7	—0.4	11.2
14	ν Geminorum	4.1	E.	22 31.5	70	—1.5	+0.5	13.2
17	ω Leonis	5.5	A.	22 11.9	275	—1.1	+1.0	16.1
Febr. 7	π Arietis	5.4	E.	16 54.6	62	—1.3	+0.9	7.2
7	*BD* +17° 454	6.9	E.	19 58.6	73	—1.0	—0.7	7.3
7	ρ Arietis	5.6	E.	21 12.8	4	—	—	7.3
7	*BD* +17° 471	6.9	E.	22 39.6	57	—0.3	—0.7	7.4
8	*BD* +19° 643	6.8	E.	23 19.4	66	—0.3	—0.9	8.4
21	ι Librae	4.7	A.	2 20.7	263	—1.5	+1.1	20.5
21	25 Librae	6.0	A.	2 52.2	314	—1.0	—0.1	20.6
März 8	*BD* +20° 785	5.7	E.	19 7.4	80	—1.1	—0.7	6.6
10	*BD* +18° 1338	6.8	E.	22 21.5	141	—0.2	—2.5	8.7
11	*BD* +16° 1551	7.4	E.	22 24.8	69	—1.3	—0.6	9.7
12	*A*¹ Cancri	5.7	E.	22 11.7	82	—1.4	—0.6	10.7
13	*A*² Cancri	5.7	E.	0 16.2	117	—0.5	—1.8	10.8
April 3	Mars	1.7	A.	7 6.0	298	—0.2	+1.1	2.5
5	*BD* +20° 948	6.8	E.	19 23.2	76	—0.8	—1.0	5.0
5	*BD* +20° 969	6.8	E.	21 39.0	47	—0.4	—0.5	5.1
9	*BD* +10° 1972	7.4	E.	20 21.8	42	—	—	9.1
10	19 Sextantis	5.9	E.	20 47.0	149	—0.8	—1.8	10.1
11	62 Leonis	6.2	E.	20 8.2	109	—1.4	—0.2	11.1
18	*BD* —20° 4454	6.4	A.	1 56.2	315	—1.5	—0.8	17.3
Mai 2	106 Tauri	5.3	E.	20 5.2	67	0.0	—1.0	2.6
3	68 Orionis	5.7	E.	20 46.9	40	—0.4	—0.3	3.6
5	*BD* +14° 1850	6.4	E.	21 21.8	158	+0.2	—2.5	5.6
8	*BD* +1° 2495	6.3	E.	21 17.1	67	—1.6	—0.6	8.7
8	*BD* +1° 2502	6.9	E.	23 32.3	97	—0.4	—1.7	8.7
12	*BD* —15° 3817	5.1	E.	21 2.6	150	—0.8	—0.7	12.7
Juni 3	*BD* +7° 2181	6.0	E.	21 1.7	153	0.0	—2.2	5.3
5	87 Leonis	5.1	E.	21 39.3	132	—0.5	—2.0	7.3
7	*BD* —10° 3615	7.4	E.	21 12.4	124	—1.2	—1.5	9.3
9	*BD* —17° 4200	6.8	E.	23 17.4	66	—1.2	—0.9	11.4
11	ω Ophiuchi	4.6	E.	21 57.8	31	—	—	13.3
15	*BD* —19° 5312	5.4	A.	1 0.8	290	—1.9	—0.5	16.4
Juli 5	*BD* —13° 3761	6.9	E.	20 43.1	82	—1.1	—1.2	8.0
7	*BD* —19° 4106	7.0	E.	21 27.6	116	—1.4	—1.3	10.0
8	*BD* —20° 4454	6.4	E.	20 39.8	79	—1.7	—0.1	11.0
21	Uranus	6.1	A.	23 54.1	221	+0.3	+1.9	24.1
Aug. 6	58 Ophiuchi	4.9	E.	19 19.0	105	—1.6	+0.1	10.7
12	ϰ Aquarii	5.3	A.	23 8.8	269	—1.6	+0.7	16.8

Sternbedeckungen 1938

Ein- und Austritte für Berlin-Babelsberg

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1938			m		h m	°	m	m	d
Sept.	4	BD −19° 5312	5.4	E.	19 3.8	97	−1.7	+0.1	10.3
	4	BD −19° 5317	6.7	E.	19 54.3	16	—	—	10.4
	11	δ Piscium	4.6	A.	22 54.0	227	−0.9	+1.8	17.5
	13	29 Arietis	6.1	A.	22 34.4	235	−0.5	+2.0	19.5
	15	BD +17° 575	6.4	A.	0 54.5	190	—	—	20.6
	15	ε Tauri	3.6	E.	22 39.8	145	−1.0	−0.3	21.5
	15	ε Tauri	3.6	A.	23 4.2	195	+0.6	+3.7	21.5
	20	BD +13° 1940	6.4	A.	2 18.8	336	−0.5	−0.8	25.7
Okt.	7	λ Piscium	4.6	E.	21 27.6	70	−1.4	+0.7	14.1
	13	107 Tauri	6.6	A.	20 50.3	331	−0.8	−0.5	20.0
	14	BD +19° 902	6.4	A.	2 55.4	267	−1.5	+0.1	20.2
	14	71 Orionis	5.2	A.	23 32.9	284	−0.6	+1.1	21.1
	16	BD +14° 1850	6.4	A.	23 34.6	232	+0.3	+2.6	23.2
	29	45 Sagittarii	6.0	E.	18 26.6	103	−1.4	−1.6	6.4
Nov.	3	BD −0° 4509	6.5	E.	22 10.0	65	−1.0	−0.4	11.6
	4	BD +2° 4752	6.9	E.	17 41.1	134	—	—	12.4
	9	BD +19° 811	6.2	A.	23 11.6	218	−0.9	+2.8	17.6
	10	BD +19° 847	6.5	A.	4 40.4	294	−0.5	−1.9	17.8
	12	BD +17° 1479	6.2	A.	1 13.6	289	−1.3	+0.1	19.7
	29	BD −7° 5727	7.4	E.	17 41.7	96	−1.8	−0.7	7.7
	30	BD −3° 5539	6.2	E.	17 19.9	101	−2.0	−0.3	8.7
Dez.	1	λ Piscium	4.6	E.	15 20.7	49	−0.8	+1.9	9.7
	1	22 Piscium	5.8	E.	22 2.0	65	−0.7	−0.7	9.9
	3	BD +9° 158	7.5	E.	16 12.7	58	−0.6	+1.9	11.7
	3	BD +9° 167	7.2	E.	18 14.2	137	—	—	11.8
	5	29 Arietis	6.1	E.	1 4.4	115	−0.4	−2.4	13.0
	11	A^2 Cancri	5.7	A.	3 47.0	342	−0.5	−2.8	19.1
	14	BD −0° 2442	6.3	A.	2 24.7	316	−0.7	−0.2	22.1
	28	BD +0° 5009	7.5	E.	18 52.9	37	−0.7	+0.5	7.0
	30	BD +8° 158	6.8	E.	16 22.6	37	−0.9	+2.0	9.0
	31	BD +11° 248	7.1	E.	16 23.8	22	−0.5	+2.8	10.0
	31	BD +12° 271	6.3	E.	21 57.8	18	−0.9	+1.9	10.1

Ein- und Austritte für Breslau

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1938			m		h m	°	m	m	d
Jan.	6	BD −3° 5505	7.5	E.	18 36.5	70	−0.6	−0.9	5.0
	7	16 Piscium	5.6	E.	19 27.3	98	−0.7	−1.9	6.0
	11	54 Arietis	6.5	E.	18 26.6	27	−1.0	+2.7	10.0
	11	BD +18° 432	6.7	E.	21 11.8	55	−1.2	+0.2	10.1
	11	BD +18° 459	7.3	E.	23 51.9	69	−0.4	−0.9	10.2
	12	ω Tauri	4.8	E.	21 54.9	145	−0.8	−3.8	11.1
	12	BD +20° 740	6.9	E.	23 51.0	37	−1.1	+0.5	11.2
	13	BD +20° 744	6.1	E.	0 1.3	89	−0.5	−1.4	11.2

Sternbedeckungen 1938

Ein- und Austritte für Breslau

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1938			m		h m	°	m	m	d
Jan.	13	*BD* +20° 751	5.9	E.	0 36.5	52	−0.7	−0.4	11.2
	14	ν Geminorum	4.1	E.	22 37.3	72	−1.5	+0.2	13.2
	17	ω Leonis	5.5	A.	22 15.3	273	−1.3	+0.9	16.1
Febr.	7	π Arietis	5.4	E.	16 59.4	68	−1.4	+0.5	7.2
	7	*BD* +17° 454	6.9	E.	20 3.5	76	−0.9	−0.9	7.3
	7	ρ Arietis	5.6	E.	21 13.5	9	—	—	7.3
	7	*BD* +17° 471	6.9	E.	22 41.4	58	−0.2	−0.7	7.4
	8	*BD* +19° 643	6.8	E.	23 21.8	66	−0.2	−0.9	8.4
	21	ι Librae	4.7	A.	2 25.5	265	−1.6	+0.9	20.5
	21	25 Librae	6.0	A.	2 56.9	315	−1.1	−0.3	20.6
März	8	*BD* +20° 785	5.7	E.	19 13.0	81	−1.1	−0.9	6.6
	10	*BD* +18° 1338	6.8	E.	22 25.4	140	−0.2	−2.4	8.7
	11	*BD* +16° 1551	7.4	E.	22 30.9	67	−1.2	−0.7	9.7
	12	*A*¹ Cancri	5.7	E.	22 18.3	80	−1.4	−0.7	10.7
	13	*A*² Cancri	5.7	E.	0 20.4	116	−0.4	−1.8	10.8
April	3	Mars	1.7	A.	7 5.4	292	−0.2	+1.1	2.5
	5	*BD* +20° 948	6.8	E.	19 27.4	76	−0.7	−1.1	5.0
	5	*BD* +20° 969	6.8	E.	21 41.1	45	−0.3	−0.4	5.1
	10	19 Sextantis	5.9	E.	20 52.6	147	−0.9	−1.9	10.1
	11	62 Leonis	6.2	E.	20 14.1	107	−1.5	−0.3	11.1
	18	*BD* −20° 4454	6.4	A.	2 4.0	313	−1.6	−1.1	17.3
	21	29 Sagittarii	5.4	A.	1 12.3	224	−1.5	+2.0	20.3
Mai	5	*BD* +14° 1850	6.4	E.	21 24.3	157	+0.2	−2.4	5.6
	8	*BD* +1° 2495	6.3	E.	21 24.5	64	−1.6	−0.7	8.7
	8	*BD* +1° 2502	6.9	E.	23 36.0	97	−0.3	−1.7	8.7
	12	*BD* −15° 3817	5.1	E.	21 7.1	148	−1.0	−0.9	12.7
Juni	3	*BD* +7° 2181	6.0	E.	21 4.5	152	0.0	−2.2	5.3
	5	87 Leonis	5.1	E.	21 43.8	132	−0.5	−2.0	7.3
	7	*BD* −10° 3615	7.4	E.	21 19.0	124	−1.2	−1.6	9.3
	9	*BD* −17° 4200	6.8	E.	23 23.1	68	−1.1	−1.0	11.4
	11	ω Ophiuchi	4.6	E.	22 3.8	32	—	—	13.3
	15	*BD* −19° 5312	5.4	A.	1 9.0	285	−1.9	−0.7	16.4
Juli	5	*BD* −13° 3761	6.9	E.	20 49.3	83	−1.0	−1.3	8.0
	7	*BD* −19° 4106	7.0	E.	21 34.8	118	−1.4	−1.5	10.0
	8	*BD* −20° 4454	6.4	E.	20 46.8	80	−1.7	−0.3	11.0
	21	Uranus	6.1	A.	23 50.1	215	+0.3	+2.1	24.1
Aug.	1	68 Virginis	5.6	E.	19 19.0	91	−0.8	−1.5	5.6
	6	58 Ophiuchi	4.9	E.	19 25.9	107	−1.8	−0.2	10.7
	12	κ Aquarii	5.3	A.	23 14.7	263	−1.7	+0.6	16.8
Sept.	4	*BD* −19° 5312	5.4	E.	19 11.1	101	−1.8	−0.3	10.3
	4	*BD* −19° 5317	6.7	E.	19 55.9	24	−0.9	+1.1	10.4
	11	δ Piscium	4.6	A.	22 55.6	220	−0.9	+1.9	17.5
	13	29 Arietis	6.1	A.	22 33.7	228	−0.5	+2.1	19.5
	20	*BD* +13° 1940	6.4	A.	2 21.8	328	−0.5	−0.4	25.7
Okt.	7	λ Piscium	4.6	E.	21 32.9	77	−1.6	+0.3	14.1
	13	107 Tauri	6.6	A.	20 53.3	319	−0.6	+0.1	20.0
	14	*BD* +19° 902	6.4	A.	3 1.2	263	−1.5	+0.1	20.2
	14	71 Orionis	5.2	A.	23 34.2	278	−0.7	+1.2	21.1

Sternbedeckungen 1938

Ein- und Austritte für Breslau

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1938			m		h m	°	m	m	d
Okt.	16	*BD* +14° 1850	6.4	A.	23 29.6	223	+0.3	+3.3	23.2
	29	45 Sagittarii	6.0	E.	18 34.7	110	−1.4	−2.0	6.4
Nov.	3	*BD* −0° 4509	6.5	E.	22 14.9	72	−1.0	−0.7	11.6
	9	*BD* +19° 811	6.2	A.	23 11.6	209	−1.0	+3.5	17.6
	10	*BD* +19° 847	6.5	A.	4 44.9	294	−0.4	−1.9	17.8
	12	*BD* +17° 1479	6.2	A.	1 18.9	286	−1.4	0.0	19.7
	29	*BD* −7° 5727	7.4	E.	17 50.5	104	−2.0	−1.4	7.7
	30	*BD* −3° 5539	6.2	E.	17 29.4	111	−2.3	−1.1	8.7
Dez.	1	λ Piscium	4.6	E.	15 21.7	55	−1.0	+1.9	9.7
	1	22 Piscium	5.8	E.	22 5.7	71	−0.6	−0.9	9.9
	3	*BD* +9° 158	7.5	E.	16 12.9	64	−0.7	+1.8	11.7
	5	29 Arietis	6.1	E.	1 9.2	119	−0.3	−2.5	13.0
	11	A^2 Cancri	5.7	A.	3 52.5	344	−0.4	−3.0	19.1
	14	*BD* −0° 2442	6.3	A.	2 28.1	316	−0.8	−0.3	22.1
	28	*BD* +0° 5009	7.5	E.	18 55.6	44	−0.8	+0.2	7.0
	30	*BD* +8° 158	6.8	E.	16 24.2	44	−1.1	+1.7	9.0
	31	*BD* +11° 248	7.1	E.	16 22.8	31	−0.7	+2.4	10.0
	31	*BD* +12° 271	6.3	E.	21 59.1	25	−0.9	+1.2	10.1

Ein- und Austritte für Frankfurt a. M.

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1938			m		h m	°	m	m	d
Jan.	6	*BD* −3° 5505	7.5	E.	18 31.5	68	−0.8	−0.7	5.0
	7	16 Piscium	5.6	E.	19 21.9	97	−1.0	−1.8	6.0
	11	54 Arietis	6.5	E.	18 16.3	21	−0.7	+3.3	10.0
	11	*BD* +18° 432	6.7	E.	21 1.0	59	−1.3	+0.3	10.1
	11	*BD* +18° 459	7.3	E.	23 48.9	78	−0.6	−1.1	10.2
	12	ω Tauri	4.8	E.	21 52.1	158	—	—	11.1
	12	*BD* +20° 740	6.9	E.	23 41.3	50	−1.1	+0.1	11.2
	12	*BD* +20° 744	6.1	E.	23 57.6	98	−0.7	−1.5	11.2
	13	*BD* +20° 751	5.9	E.	0 31.1	63	−0.8	−0.6	11.2
	14	ν Geminorum	4.1	E.	22 23.7	81	−1.6	+0.3	13.2
	17	ω Leonis	5.5	A.	22 4.4	265	−1.1	+1.4	16.1
Febr.	7	π Arietis	5.4	E.	16 46.3	66	−1.4	+1.0	7.2
	7	*BD* +17° 454	6.9	E.	19 55.9	81	−1.1	−0.9	7.3
	7	ρ Arietis	5.6	E.	21 1.3	25	−1.1	+1.4	7.3
	7	*BD* +17° 471	6.9	E.	22 40.0	67	−0.3	−0.9	7.4
	8	*BD* +19° 643	6.8	E.	23 20.2	75	−0.4	−1.1	8.4
	21	ι Librae	4.7	A.	2 10.7	253	−1.6	+1.6	20.5
	21	25 Librae	6.0	A.	2 47.4	305	−1.1	+0.2	20.6
März	8	*BD* +20° 785	5.7	E.	19 3.8	89	−1.3	−0.9	6.6
	10	*BD* +19° 1430	7.4	E.	18 58.4	42	−2.0	+2.8	8.6
	10	*BD* +18° 1338	6.8	E.	22 26.8	154	−0.1	−3.0	8.7
	11	*BD* +16° 1551	7.4	E.	22 20.9	80	−1.3	−0.8	9.7
	12	A^1 Cancri	5.7	E.	22 6.6	93	−1.5	−0.7	10.7

Sternbedeckungen 1938

Ein- und Austritte für Frankfurt a. M.

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1938			m		h m	°	m	m	d
März	13	A^2 Cancri	5.7	E.	0 18.0	125	−0.5	−1.9	10.8
April	5	*BD* +20° 948	6.8	E.	19 21.9	86	−0.9	−1.2	5.0
	5	*BD* +20° 969	6.8	E.	21 38.7	58	−0.4	−0.7	5.1
	9	*BD* +10° 1972	7.4	E.	20 6.6	63	−2.2	+0.9	9.1
	10	19 Sextantis	5.9	E.	20 48.1	160	−0.7	−2.2	10.1
	11	62 Leonis	6.2	E.	20 2.8	119	−1.3	−0.3	11.1
	17	*BD* −20° 4444	6.3	A.	23 53.0	345	—	—	17.2
	18	*BD* −20° 4454	6.4	A.	1 51.2	310	−1.6	−0.6	17.3
Mai	2	106 Tauri	5.3	E.	20 7.4	75	0.0	−1.0	2.6
	3	68 Orionis	5.7	E.	20 46.2	52	−0.4	−0.6	3.6
	5	*BD* +15° 1775	6.1	E.	20 30.0	51	−1.4	−0.2	5.6
	5	*BD* +14° 1850	6.4	E.	21 29.4	170	+0.4	−3.0	5.6
	8	*BD* +1° 2495	6.3	E.	21 11.3	77	−1.7	−0.7	8.7
	8	*BD* +1° 2502	6.9	E.	23 33.9	101	−0.5	−1.7	8.7
	12	*BD* −15° 3817	5.1	E.	21 1.4	161	−0.6	−1.2	12.7
	17	58 Ophiuchi	4.9	A.	1 54.3	276	−1.8	−0.3	16.8
Juni	3	*BD* +7° 2181	6.0	E.	21 6.9	159	0.0	−2.4	5.3
	5	87 Leonis	5.1	E.	21 41.3	137	−0.6	−2.1	7.3
	7	*BD* −10° 3615	7.4	E.	21 10.3	129	−1.2	−1.5	9.3
	9	*BD* −17° 4200	6.8	E.	23 13.5	68	−1.4	−0.7	11.4
	11	ω Ophiuchi	4.6	E.	21 44.1	41	—	—	13.3
	15	*BD* −19° 5312	5.4	A.	0 53.1	289	−2.0	−0.3	16.4
	21	22 Piscium	5.8	A.	0 49.6	232	−0.4	+2.0	22.5
Juli	5	*BD* −13° 3761	6.9	E.	20 40.2	85	−1.4	−1.1	8.0
	7	*BD* −19° 4106	7.0	E.	21 23.8	118	−1.6	−1.3	10.0
	8	*BD* −20° 4454	6.4	E.	20 32.2	83	−1.8	+0.1	11.0
	18	λ Piscium	4.6	A.	2 21.8	179	—	—	20.2
Aug.	5	*BD* −21° 4449	6.8	E.	21 29.5	66	−1.3	−0.6	9.7
	7	*BD* −20° 5223	6.8	E.	23 39.1	5	—	—	11.8
	12	ϰ Aquarii	5.3	A.	22 59.5	270	−1.7	+0.9	16.8
	18	*BD* +15° 400	6.4	A.	2 28.3	240	−1.0	+1.8	21.9
	21	*BD* +19° 1110	6.0	A.	2 45.0	265	−0.4	+1.5	25.0
Sept.	4	*BD* −19° 5312	5.4	E.	18 55.7	98	−1.8	+0.3	10.3
	4	*BD* −19° 5317	6.7	E.	19 46.6	17	—	—	10.4
	11	δ Piscium	4.6	A.	22 45.8	227	−0.9	+1.9	17.5
	13	29 Arietis	6.1	A.	22 27.8	235	−0.4	+2.0	19.5
	15	*BD* +17° 575	6.4	A.	0 44.2	185	—	—	20.6
	15	ε Tauri	3.6	E.	22 36.5	148	−1.0	−0.6	21.5
	15	ε Tauri	3.6	A.	22 58.8	193	+0.8	+3.8	21.5
	20	*BD* +13° 1940	6.4	A.	2 18.1	329	−0.4	−0.4	25.7
Okt.	7	λ Piscium	4.6	E.	21 19.3	69	−1.5	+0.9	14.1
	13	107 Tauri	6.6	A.	20 47.9	329	−0.7	−0.5	20.0
	14	*BD* +19° 902	6.4	A.	2 47.7	260	−1.5	+0.6	20.2
	14	71 Orionis	5.2	A.	23 27.7	282	−0.5	+1.1	21.1
	29	45 Sagittarii	6.0	E.	18 23.4	103	−1.6	−1.4	6.4
Nov.	3	*BD* −0° 4509	6.5	E.	22 6.2	67	−1.2	−0.3	11.6
	4	*BD* +2° 4752	6.9	E.	17 32.2	132	—	—	12.4
	[illegible]	*BD* +19° 811	6.2	A.	23 0.8	212	−0.7	+3.3	17.6

Sternbedeckungen 1938

Ein- und Austritte für Frankfurt a. M.

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1938			m		h m	°	m	m	d
Nov.	10	BD +19° 847	6.5	A.	4 41.9	285	−0.7	−1.7	17.8
	12	BD +17° 1479	6.2	A.	1 7.1	282	−1.3	+0.5	19.7
	29	BD −7° 5727	7.4	E.	17 34.6	95	−2.0	−0.5	7.7
	30	BD −3° 5539	6.2	E.	17 11.0	101	−2.1	0.0	8.7
Dez.	1	22 Piscium	5.8	E.	22 0.3	70	−0.9	−0.8	9.9
	3	BD +9° 158	7.5	E.	16 5.8	58	−0.5	+1.9	11.7
	3	BD +9° 167	7.2	E.	18 6.0	137	—	—	11.8
	5	29 Arietis	6.1	E.	1 8.3	127	−0.5	−3.0	13.0
	11	A^2 Cancri	5.7	A.	3 49.9	329	−0.8	−2.4	19.1
	14	BD −0° 2442	6.3	A.	2 21.3	306	−0.8	+0.2	22.1
	28	BD +0° 5009	7.5	E.	18 48.1	41	−0.9	+0.5	7.0
	30	BD +8° 158	6.8	E.	16 13.9	36	−0.9	+2.2	9.0
	31	BD +11° 248	7.1	E.	16 15.4	22	−0.4	+2.8	10.0
	31	BD +12° 271	6.3	E.	21 50.2	29	−1.0	+1.2	10.1

Ein- und Austritte für Königsberg

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1938			m		h m	°	m	m	d
Jan.	6	BD −3° 5505	7.5	E.	18 35.1	62	−0.4	−0.8	5.0
	7	16 Piscium	5.6	E.	19 23.3	87	−0.5	−1.6	6.0
	9	BD +10° 168	6.9	E.	21 41.7	134	−0.1	−3.8	8.1
	10	19 Arietis	6.0	E.	20 7.6	139	—	—	9.0
	11	54 Arietis	6.5	E.	18 41.3	11	—	—	10.0
	11	BD +18° 432	6.7	E.	21 16.8	41	−1.1	+0.5	10.1
	11	BD +18° 459	7.3	E.	23 50.2	57	−0.4	−0.7	10.2
	12	ω Tauri	4.8	E.	21 47.3	127	−0.9	−2.4	11.1
	12	BD +20° 744	6.1	E.	23 58.5	78	−0.5	−1.2	11.2
	13	BD +20° 751	5.9	E.	0 37.9	37	−0.7	0.0	11.2
	14	ν Geminorum	4.1	E.	22 43.8	57	−1.5	+0.6	13.2
	17	ω Leonis	5.5	A.	22 21.7	286	−1.1	+0.4	16.1
Febr.	7	π Arietis	5.4	E.	17 5.9	59	−1.2	+0.6	7.2
	7	BD +17° 454	6.9	E.	20 3.5	64	−0.8	−0.7	7.3
	7	BD +17° 471	6.9	E.	22 40.1	45	−0.2	−0.4	7.4
	8	BD +19° 643	6.8	E.	23 19.7	54	−0.3	−0.7	8.4
	21	ι Librae	4.7	A.	2 33.4	274	−1.4	+0.6	20.5
	21	25 Librae	6.0	A.	2 59.4	324	−1.0	−0.4	20.6
März	8	BD +20° 785	5.7	E.	19 13.5	69	−1.0	−0.6	6.6
	10	BD +18° 1338	6.8	E.	22 17.9	129	−0.2	−2.1	8.7
	11	BD +16° 1551	7.4	E.	22 33.5	52	−1.3	−0.3	9.7
	12	A^1 Cancri	5.7	E.	22 20.8	68	−1.4	−0.5	10.7
	13	A^2 Cancri	5.7	E.	0 15.5	108	−0.4	−1.7	10.8
April	3	Mars	1.7	A.	7 10.4	295	−0.3	+1.2	2.5
	5	BD +20° 948	6.8	E.	19 26.4	64	−0.7	−0.8	5.0

Sternbedeckungen 1938

Ein- und Austritte für Königsberg

Tag	Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1938		m		h m	°	m	m	d
April 8	BD +14° 1879	7.1	E.	19 19.1	177	—	—	8.0
10	19 Sextantis	5.9	E.	20 49.5	136	—0.9	—1.6	10.1
11	62 Leonis	6.2	E.	20 18.2	96	—1.5	—0.1	11.1
21	29 Sagittarii	5.4	A.	1 23.6	230	—1.4	+1.6	20.3
Mai 5	BD +14° 1850	6.4	E.	21 15.4	148	+0.2	—2.1	5.6
8	BD +1° 2495	6.3	E.	21 27.3	52	—	—	8.7
8	BD +1° 2502	6.9	E.	23 31.1	93	—0.3	—1.7	8.7
12	BD —15° 3817	5.1	E.	21 8.2	138	—1.1	—0.6	12.7
Juni 3	BD +7° 2181	6.0	E.	20 56.8	146	0.0	—2.1	5.3
5	87 Leonis	5.1	E.	21 38.2	128	—0.4	—1.9	7.3
7	BD —10° 3615	7.4	E.	21 16.9	119	—1.0	—1.6	9.3
9	BD —17° 4200	6.8	E.	23 22.8	64	—0.9	—1.1	11.4
11	ω Ophiuchi	4.6	E.	22 15.6	22	—	—	13.3
Juli 8	BD —20° 4454	6.4	E.	20 50.9	76	—1.4	—0.4	11.0
21	Uranus	6.1	A.	23 56.6	218	+0.2	+2.1	24.1
Aug. 6	58 Ophiuchi	4.9	E.	19 30.8	104	—1.6	—0.3	10.7
12	ϰ Aquarii	5.3	A.	23 21.8	265	—1.6	+0.4	16.8
Sept. 4	BD —19° 5312	5.4	E.	19 15.9	98	—1.6	—0.4	10.3
4	BD —19° 5317	6.7	E.	20 1.6	20	—0.6	+0.8	10.4
11	δ Piscium	4.6	A.	23 4.9	223	—0.9	+1.6	17.5
13	29 Arietis	6.1	A.	22 43.1	232	—0.6	+2.0	19.5
15	BD +17° 575	6.4	A.	1 5.6	190	—	—	20.6
15	BD +18° 633	6.0	A.	21 34.1	193	+0.8	+3.4	21.5
15	ε Tauri	3.6	E.	22 47.4	150	—	—	21.5
15	ε Tauri	3.6	A.	23 8.6	191	—	—	21.5
20	BD +13° 1940	6.4	A.	2 20.9	343	—0.6	—1.3	25.7
Okt. 7	λ Piscium	4.6	E.	21 39.1	72	—1.4	+0.2	14.1
13	107 Tauri	6.6	A.	20 55.5	327	—0.9	—0.3	20.0
14	BD +19° 902	6.4	A.	3 5.6	274	—1.3	—0.5	20.2
14	71 Orionis	5.2	A.	23 40.5	286	—0.8	+1.0	21.1
16	BD +14° 1850	6.4	A.	23 39.5	235	0.0	+2.6	23.2
19	14 Sextantis	6.3	A.	1 40.7	297	—0.2	+0.8	25.2
Nov. 3	BD —0° 4509	6.5	E.	22 15.6	63	—0.8	—0.6	11.6
9	BD +19° 811	6.2	A.	23 25.1	224	—1.1	+2.2	17.6
12	BD +17° 1479	6.2	A.	1 22.6	298	—1.2	—0.5	19.7
25	BD —19° 5255	6.7	E.	15 9.2	102	—1.5	—1.2	3.6
29	BD —7° 5727	7.4	E.	17 52.0	99	—1.6	—1.2	7.7
30	BD —3° 5539	6.2	E.	17 32.8	106	—1.9	—0.9	8.7
Dez. 1	λ Piscium	4.6	E.	15 31.3	52	—0.9	+1.7	9.7
1	22 Piscium	5.8	E.	22 4.6	60	—0.5	—0.7	9.9
3	BD +9° 158	7.5	E.	16 21.9	61	—0.8	+1.8	11.7
5	29 Arietis	6.1	E.	1 2.2	105	—0.3	—2.0	13.0
11	A² Cancri	5.7	A.	3 38.6	9	—	—	19.1
14	BD —0° 2442	6.3	A.	2 28.9	329	—0.7	—0.7	22.1
17	BD —14° 3863	6.4	A.	4 32.6	237	—1.7	+2.4	25.2
28	BD +0° 5009	7.5	E.	18 58.7	35	—0.6	+0.3	7.0
30	BD +8° 158	6.8	E.	16 33.8	39	—1.0	+1.6	9.0
31	BD +11° 248	7.1	E.	16 33.9	25	—0.6	+2.5	10.0

Sternbedeckungen 1938

Ein- und Austritte für München

Tag	Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1938		m		h m	°	m	m	d
Jan. 6	BD −3° 5505	7.5	E.	18 35.6	76	−0.8	−1.0	5.0
7	16 Piscium	5.6	E.	19 28.9	107	−1.0	−2.3	6.0
11	54 Arietis	6.5	E.	18 13.4	33	−1.0	+2.5	10.0
11	BD +18° 432	6.7	E.	21 4.6	65	−1.4	0.0	10.1
11	BD +18° 459	7.3	E.	23 52.7	81	−0.5	−1.1	10.2
12	53 Tauri	5.4	E.	23 3.7	18	—	—	11.1
12	BD +20° 740	6.9	E.	23 44.7	54	−1.1	−0.1	11.2
13	BD +20° 744	6.1	E.	0 2.7	101	−0.6	−1.6	11.2
13	BD +20° 751	5.9	E.	0 34.7	66	−0.7	−0.7	11.2
14	ν Geminorum	4.1	E.	22 28.3	86	−1.6	0.0	13.2
17	ω Leonis	5.5	A.	22 4.7	259	−1.2	+1.6	16.1
Febr. 7	π Arietis	5.4	E.	16 49.3	74	−1.6	+0.6	7.2
7	BD +17° 454	6.9	E.	20 1.1	87	−1.1	−1.1	7.3
7	ρ Arietis	5.6	E.	21 2.3	33	−1.0	+0.9	7.3
7	BD +17° 471	6.9	E.	22 42.6	70	−0.2	−0.9	7.4
8	BD +19° 643	6.8	E.	23 23.3	78	−0.3	−1.1	8.4
21	ι Librae	4.7	A.	2 12.6	252	−1.8	+1.6	20.5
21	25 Librae	6.0	A.	2 50.6	305	−1.2	0.0	20.6
März 8	BD +20° 785	5.7	E.	19 9.6	93	−1.3	−1.1	6.6
10	BD +19° 1430	7.4	E.	19 0.0	51	−2.1	+1.9	8.6
10	BD +18° 1338	6.8	E.	22 32.9	156	0.0	−3.1	8.7
11	BD +16° 1551	7.4	E.	22 26.3	82	−1.3	−0.9	9.7
12	A^1 Cancri	5.7	E.	22 12.7	94	−1.5	−0.9	10.7
13	A^2 Cancri	5.7	E.	0 23.3	125	−0.5	−1.9	10.8
April 5	BD +20° 948	6.8	E.	19 26.7	88	−0.8	−1.3	5.0
5	BD +20° 969	6.8	E.	21 41.1	60	−0.3	−0.7	5.1
9	BD +10° 1972	7.4	E.	20 11.8	65	−2.3	+0.7	9.1
10	19 Sextantis	5.9	E.	20 54.5	161	−0.6	−2.4	10.1
11	62 Leonis	6.2	E.	20 7.5	121	−1.4	−0.5	11.1
17	BD −20° 4444	6.3	A.	23 56.7	343	—	—	17.2
18	BD −20° 4454	6.4	A.	1 57.4	308	−1.7	−0.8	17.3
Mai 2	106 Tauri	5.3	E.	20 9.3	76	+0.1	−1.0	2.6
3	68 Orionis	5.7	E.	20 48.4	54	−0.3	−0.6	3.6
5	BD +15° 1775	6.1	E.	20 34.7	51	−1.4	−0.2	5.6
5	BD +14° 1850	6.4	E.	21 33.9	170	+0.5	−3.0	5.6
8	BD +1° 2495	6.3	E.	21 17.8	77	−1.6	−0.8	8.7
8	BD +1° 2502	6.9	E.	23 38.8	102	−0.5	−1.7	8.7
12	BD −15° 3817	5.1	E.	21 5.7	161	−0.7	−1.4	12.7
17	58 Ophiuchi	4.9	A.	2 0.3	272	−1.9	−0.4	16.8
Juni 3	BD +7° 2181	6.0	E.	21 11.5	160	+0.1	−2.5	5.3
5	87 Leonis	5.1	E.	21 47.1	138	−0.6	−2.1	7.3
7	BD −10° 3615	7.4	E.	21 17.2	130	−1.3	−1.6	9.3
9	BD −17° 4200	6.8	E.	23 19.1	71	−1.4	−0.8	11.4
11	ω Ophiuchi	4.6	E.	21 47.2	43	−2.3	+1.6	13.3
15	BD −19° 5312	5.4	A.	0 59.8	284	−2.0	−0.4	16.4
21	22 Piscium	5.8	A.	0 46.6	228	−0.4	+2.1	22.5
Juli 5	BD −13° 3761	6.9	E.	20 46.6	87	−1.3	−1.2	8.0
7	BD −19° 4106	7.0	E.	21 31.2	121	−1.6	−1.5	10.0

Sternbedeckungen 1938

Ein- und Austritte für München

Tag		Stern	Größe	Phase	Welt-Zeit	P	a	b	Alter des Mondes
1938			m		h m	°	m	m	d
Juli	8	*BD* —20° 4454	6.4	E.	20 37.5	84	—1.9	0.0	11.0
Aug.	1	68 Virginis	5.6	E.	19 18.2	95	—1.0	—1.5	5.6
	5	*BD* —21° 4449	6.8	E.	21 34.6	71	—1.2	—0.8	9.7
	6	58 Ophiuchi	4.9	E.	19 16.4	111	—1.8	0.0	10.7
	7	*BD* —20° 5223	6.8	E.	23 35.4	20	—0.1	+1.1	11.8
	12	ϰ Aquarii	5.3	A.	23 2.8	264	—1.8	+0.9	16.8
	18	*BD* +15° 400	6.4	A.	2 27.7	232	—1.0	+1.9	21.9
	21	*BD* +19° 1110	6.0	A.	2 43.2	258	—0.4	+1.7	25.0
Sept.	4	*BD* —19° 5312	5.4	E.	19 0.8	102	—2.0	0.0	10.3
	4	*BD* —19° 5317	6.7	E.	19 46.6	24	—1.1	+1.5	10.4
	11	δ Piscium	4.6	A.	22 44.4	220	—0.9	+2.1	17.5
	13	29 Arietis	6.1	A.	22 24.8	228	—0.4	+2.2	19.5
	20	*BD* +13° 1940	6.4	A.	2 19.7	319	—0.4	—0.1	25.7
Okt.	7	λ Piscium	4.6	E.	21 22.5	77	—1.7	+0.6	14.1
	13	107 Tauri	6.6	A.	20 49.7	317	—0.5	+0.2	20.0
	14	*BD* +19° 893	6.2	A.	1 31.4	339	—	—	20.2
	14	*BD* +19° 902	6.4	A.	2 51.3	253	—1.6	+0.7	20.2
	14	71 Orionis	5.2	A.	23 27.0	274	—0.6	+1.3	21.1
	29	45 Sagittarii	6.0	E.	18 31.7	111	—1.8	—1.9	6.4
Nov.	3	*BD* —0° 4509	6.5	E.	22 10.8	76	—1.3	—0.6	11.6
	9	*BD* +19° 811	6.2	A.	22 54.6	197	—	—	17.6
	10	*BD* +19° 847	6.5	A.	4 47.0	282	—0.7	—1.6	17.8
	12	*BD* +17° 1479	6.2	A.	1 10.1	276	—1.4	+0.5	19.7
	29	*BD* —7° 5727	7.4	E.	17 42.4	105	—2.3	—1.1	7.7
	30	*BD* —3° 5539	6.2	E.	17 18.7	111	—2.6	—0.8	8.7
Dez.	1	22 Piscium	5.8	E.	22 4.6	78	—0.9	—1.0	9.9
	3	*BD* +9° 158	7.5	E.	16 3.8	63	—0.6	+1.8	11.7
	5	29 Arietis	6.1	E.	1 15.8	135	—0.3	—3.6	13.0
	11	A^2 Cancri	5.7	A.	3 56.7	327	—0.8	—2.2	19.1
	14	*BD* —0° 2442	6.3	A.	2 23.5	302	—0.9	+0.2	22.1
	28	*BD* +0° 5009	7.5	E.	18 49.9	49	—1.0	+0.2	7.0
	30	*BD* +8° 158	6.8	E.	16 12.7	44	—1.1	+2.0	9.0
	31	*BD* +11° 248	7.1	E.	16 11.7	31	—0.6	+2.6	10.0
	31	*BD* +12° 271	6.3	E.	21 51.4	38	—1.0	+0.7	10.1

0h Welt-Zeit	Mondbewegung			Lage des Mondäquators gegen den Erdäquator							
	☊	$L_☾$	$M_☾$	i		Δ		☊′		$\Delta - ☋$	
1938	°	°	°	°		°		°		°	
Jan. −4	244.4744	206.3533	126.35	24.147	12	61.371	514	3.397	17	356.892	16
+6	243.9448	338.1173	257.00	24.159	12	60.857	514	3.380	17	356.908	16
16	243.4153	109.8812	27.65	24.171	13	60.343	513	3.363	18	356.924	16
26	242.8858	241.6452	158.30	24.184	12	59.830	513	3.345	17	356.940	16
Febr. 5	242.3562	13.4092	288.95	24.196	13	59.317	513	3.328	18	356.956	16
15	241.8267	145.1731	59.60	24.209	12	58.804	513	3.310	18	356.972	17
25	241.2972	276.9371	190.25	24.221	12	58.291	513	3.292	19	356.989	17
März 7	240.7676	48.7011	320.90	24.233	12	57.778	512	3.273	18	357.006	17
17	240.2381	180.4650	91.55	24.245	11	57.266	513	3.255	19	357.023	18
27	239.7085	312.2290	222.20	24.256	12	56.753	512	3.236	20	357.041	17
April 6	239.1790	83.9930	352.85	24.268	12	56.241	512	3.216	19	357.058	18
16	238.6495	215.7569	123.50	24.280	12	55.729	511	3.197	20	357.076	18
26	238.1199	347.5209	254.15	24.292	11	55.218	512	3.177	19	357.094	18
Mai 6	237.5904	119.2849	24.80	24.303	12	54.706	511	3.158	20	357.112	19
16	237.0608	251.0488	155.45	24.315	11	54.195	510	3.138	21	357.131	18
26	236.5313	22.8128	286.10	24.326	12	53.685	511	3.117	20	357.149	19
Juni 5	236.0018	154.5768	56.75	24.338	11	53.174	510	3.097	21	357.168	19
15	235.4722	286.3407	187.40	24.349	11	52.664	511	3.076	21	357.187	20
25	234.9427	58.1047	318.05	24.360	12	52.153	510	3.055	21	357.207	19
Juli 5	234.4131	189.8687	88.70	24.372	11	51.643	509	3.034	21	357.226	20
15	233.8836	321.6326	219.35	24.383	11	51.134	510	3.013	22	357.246	20
25	233.3541	93.3966	350.00	24.394	11	50.624	509	2.991	22	357.266	20
Aug. 4	232.8245	225.1606	120.65	24.405	11	50.115	510	2.969	22	357.286	21
14	232.2950	356.9246	251.30	24.416	10	49.605	509	2.947	23	357.307	20
24	231.7654	128.6885	21.95	24.426	11	49.096	508	2.924	22	357.327	21
Sept. 3	231.2359	260.4525	152.60	24.437	11	48.588	509	2.902	23	357.348	21
13	230.7064	32.2165	283.25	24.448	10	48.079	508	2.879	23	357.369	21
23	230.1768	163.9804	53.90	24.458	10	47.571	509	2.856	24	357.390	22
Okt. 3	229.6473	295.7444	184.55	24.468	11	47.062	508	2.832	23	357.412	21
13	229.1177	67.5084	315.20	24.479	10	46.554	507	2.809	24	357.433	22
23	228.5882	199.2723	85.85	24.489	10	46.047	508	2.785	24	357.455	22
Nov. 2	228.0587	331.0363	216.50	24.499	10	45.539	507	2.761	24	357.477	22
12	227.5291	102.8003	347.15	24.509	10	45.032	508	2.737	24	357.499	22
22	226.9996	234.5642	117.80	24.519	10	44.524	507	2.713	25	357.521	23
Dez. 2	226.4701	6.3282	248.45	24.529	10	44.017	506	2.688	24	357.544	22
12	225.9405	138.0922	19.10	24.539	10	43.511	507	2.664	25	357.566	23
22	225.4110	269.8561	149.75	24.549	9	43.004	507	2.639	25	357.589	23
32	224.8814	41.6201	280.40	24.558		42.497		2.614		357.612	

Tag		0ʰ Welt-Zeit								
		$\alpha_{☾} - \alpha_k$			$\delta_{☾} - \delta_k$			log sin p_k		
1938										
Jan.	9	+2.73ˢ	−0.76ˢ		−22.8″	+13.3″		8.22531	+589	
	10	+1.97	−1.24	−0.48ˢ	−9.5	+16.1	+2.8″	8.23120	+592	+3
	11	+0.73	−1.65	−0.41	+6.6	+20.3	+4.2	8.23712	+551	−41
	12	−0.92	−1.87	−0.22	+26.9	+25.7	+5.4	8.24263	+460	−91
	13	−2.79	−1.81	+0.06	+52.6	+31.5	+5.8	8.24723	+314	−146
	14	−4.60	−1.49	+0.32	+84.1	+35.5	+4.0	8.25037	+122	−192
	15	−6.09	−1.00	+0.49	+119.6	+35.8	+0.3	8.25159	−96	−218
	16	−7.09	−0.56	+0.44	+155.4	+31.5	−4.3	8.25063	−312	−216
	17	−7.65	−0.28	+0.28	+186.9	+23.3	−8.2	8.24751	−498	−186
	18	−7.93	−0.16	+0.12	+210.2	+12.7	−10.6	8.24253	−633	−135
	19	−8.09	−0.15	+0.01	+222.9	+1.5	−11.2	8.23620	−704	−71
	20	−8.24	−0.18	−0.03	+224.4	−8.9	−10.4	8.22916	−712	−8
	21	−8.42	−0.20	−0.02	+215.5	−18.0	−9.1	8.22204	−668	+44
	22	−8.62	−0.15	+0.05	+197.5	−25.3	−7.3	8.21536	−582	+86
	23	−8.77	+0.01	+0.16	+172.2	−30.5	−5.2	8.20954	−469	+113
	24	−8.76		+0.34	+141.7		−3.2	8.20485		+127
Febr.	8	−1.16ˢ	−1.24ˢ		+22.0″	+25.0″		8.23485	+384	
	9	−2.40	−1.17	+0.07ˢ	+47.0	+28.9	+3.9″	8.23869	+329	−55
	10	−3.57	−0.95	+0.22	+75.9	+31.6	+2.7	8.24198	+240	−89
	11	−4.52	−0.67	+0.28	+107.5	+32.0	+0.4	8.24438	+114	−126
	12	−5.19	−0.44	+0.23	+139.5	+29.3	−2.7	8.24552	−39	−153
	13	−5.63	−0.33	+0.11	+168.8	+23.8	−5.5	8.24513	−205	−166
	14	−5.96	−0.32	+0.01	+192.6	+15.8	−8.0	8.24308	−366	−161
	15	−6.28	−0.40	−0.08	+208.4	+6.3	−9.5	8.23942	−500	−134
	16	−6.68	−0.50	−0.10	+214.7	−3.7	−10.0	8.23442	−589	−89
	17	−7.18	−0.54	−0.04	+211.0	−13.3	−9.6	8.22853	−629	−40
	18	−7.72	−0.50	+0.04	+197.7	−21.7	−8.4	8.22224	−618	+11
	19	−8.22	−0.35	+0.15	+176.0	−28.3	−6.6	8.21606	−561	+57
	20	−8.57	−0.05	+0.30	+147.7	−32.8	−4.5	8.21045	−466	+95
	21	−8.62	+0.35	+0.40	+114.9	−34.7	−1.9	8.20579	−347	+119
	22	−8.27	+0.79	+0.44	+80.2	−34.0	+0.7	8.20232	−211	+136
	23	−7.48		+0.42	+46.2		+3.0	8.20021		+140
März	9	−4.63ˢ	−0.61ˢ		+70.4″	+31.7″		8.23760	+116	
	10	−5.24	−0.24	+0.37ˢ	+102.1	+31.1	−0.6″	8.23876	+57	−59
	11	−5.48	+0.03	+0.27	+133.2	+27.9	−3.2	8.23933	−16	−73
	12	−5.45	+0.10	+0.07	+161.1	+22.5	−5.4	8.23917	−102	−86
	13	−5.35	+0.01	−0.09	+183.6	+15.4	−7.1	8.23815	−200	−98
	14	−5.34	−0.17	−0.18	+199.0	+7.4	−8.0	8.23615	−300	−100
	15	−5.51	−0.39	−0.22	+206.4	−1.2	−8.6	8.23315	−392	−92
	16	−5.90	−0.58	−0.19	+205.2	−9.9	−8.7	8.22923	−463	−71
	17	−6.48		−0.08	+195.3		−8.3	8.22460		−43

Tag		0h Welt-Zeit								
		$\alpha_{☾}-\alpha_k$			$\delta_{☾}-\delta_k$			log sin p_k		
1938		s	s	s	"	"	"			
März	17	−6.48	−0.66	−0.08	+195.3	−18.2	−8.3	8.22460	−506	− 43
	18	−7.14	−0.60	+0.06	+177.1	−25.4	−7.2	8.21954	−511	− 5
	19	−7.74	−0.36	+0.24	+151.7	−30.9	−5.5	8.21443	−478	+ 33
	20	−8.10	+0.03	+0.39	+120.8	−34.0	−3.1	8.20965	−410	+ 68
	21	−8.07	+0.53	+0.50	+ 86.8	−34.4	−0.4	8.20555	−311	+ 99
	22	−7.54	+1.04	+0.51	+ 52.4	−32.1	+2.3	8.20244	−189	+122
	23	−6.50	+1.44	+0.40	+ 20.3	−27.5	+4.6	8.20055	− 54	+135
	24	−5.06	+1.66	+0.22	− 7.2	−21.3	+6.2	8.20001	+ 86	+140
	25	−3.40		+0.01	− 28.5		+6.8	8.20087		+135
April	8	−6.81	+0.40		+160.9	+23.3		8.23721	−215	
	9	−6.41	+0.40	0.00	+184.2	+15.6	−7.7	8.23506	−255	− 40
	10	−6.01	+0.23	−0.17	+199.8	+ 7.4	−8.2	8.23251	−293	− 38
	11	−5.78	−0.03	−0.26	+207.2	− 0.9	−8.3	8.22958	−329	− 36
	12	−5.81	−0.29	−0.26	+206.3	− 9.0	−8.1	8.22629	−363	− 34
	13	−6.10	−0.49	−0.20	+197.3	−16.6	−7.6	8.22266	−389	− 26
	14	−6.59	−0.56	−0.07	+180.7	−23.5	−6.9	8.21877	−404	− 15
	15	−7.15	−0.46	+0.10	+157.2	−29.2	−5.7	8.21473	−400	+ 4
	16	−7.61	−0.17	+0.29	+128.0	−33.1	−3.9	8.21073	−374	+ 26
	17	−7.78	+0.28	+0.45	+ 94.9	−34.6	−1.5	8.20699	−321	+ 53
	18	−7.50	+0.80	+0.52	+ 60.3	−33.2	+1.4	8.20378	−244	+ 77
	19	−6.70	+1.29	+0.49	+ 27.1	−29.2	+4.0	8.20134	−144	+100
	20	−5.41	+1.63	+0.34	− 2.1	−23.2	+6.0	8.19990	− 24	+120
	21	−3.78	+1.77	+0.14	− 25.3	−16.1	+7.1	8.19966	+108	+132
	22	−2.01	+1.67	−0.10	− 41.4	− 9.0	+7.1	8.20074	+243	+135
	23	−0.34	+1.40	−0.27	− 50.4	− 2.6	+6.4	8.20317	+373	+130
	24	+1.06		−0.40	− 53.0		+5.0	8.20690		+116
Mai	7	−7.45	+0.38		+205.2	+ 9.1		8.23407	−437	
	8	−7.07	+0.21	−0.17	+214.3	0.0	−9.1	8.22970	−438	− 1
	9	−6.86	−0.02	−0.23	+214.3	− 8.5	−8.5	8.22532	−425	+ 13
	10	−6.88	−0.23	−0.21	+205.8	−16.2	−7.7	8.22107	−405	+ 20
	11	−7.11	−0.37	−0.14	+189.6	−23.0	−6.8	8.21702	−383	+ 22
	12	−7.48	−0.36	+0.01	+166.6	−28.6	−5.6	8.21319	−356	+ 27
	13	−7.84	−0.18	+0.18	+138.0	−32.7	−4.1	8.20963	−324	+ 32
	14	−8.02	+0.17	+0.35	+105.3	−34.8	−2.1	8.20639	−285	+ 39
	15	−7.85	+0.64	+0.47	+ 70.5	−34.2	+0.6	8.20354	−232	+ 53
	16	−7.21	+1.14	+0.50	+ 36.3	−31.0	+3.2	8.20122	−166	+ 66
	17	−6.07	+1.54	+0.40	+ 5.3	−25.5	+5.5	8.19956	− 84	+ 82
	18	−4.53	+1.76	+0.22	− 20.2	−18.5	+7.0	8.19872	+ 16	+100
	19	−2.77	+1.79	+0.03	− 38.7	−10.9	+7.6	8.19888	+129	+113
	20	−0.98	+1.63	−0.16	− 49.6	− 3.9	+7.0	8.20017	+251	+122
	21	+0.65	+1.31	−0.32	− 53.5	+ 2.2	+6.1	8.20268	+378	+127
	22	+1.96	+0.88	−0.43	− 51.3	+ 6.8	+4.6	8.20646	+497	+119
	23	+2.84		−0.49	− 44.5		+3.2	8.21143		+102

Tag		0^h Welt-Zeit $\alpha_{☾}-\alpha_k$			$\delta_{☾}-\delta_k$			log sin p_k		
1938										
Juni	5	−8.05 s	−0.04 s		+223.0″	−6.5″		8.22965	−581	
	6	−8.09	−0.18	−0.14 s	+216.5	−15.1	−8.6″	8.22384	−543	+38
	7	−8.27	−0.28	−0.10	+201.4	−22.6	−7.5	8.21841	−487	+56
	8	−8.55	−0.27	+0.01	+178.8	−28.6	−6.0	8.21354	−422	+65
	9	−8.82	−0.13	+0.14	+150.2	−32.9	−4.3	8.20932	−355	+67
	10	−8.95	+0.16	+0.29	+117.3	−35.3	−2.4	8.20577	−289	+66
	11	−8.79	+0.58	+0.42	+82.0	−35.4	−0.1	8.20288	−225	+64
	12	−8.21	+1.04	+0.46	+46.6	−32.8	+2.6	8.20063	−160	+65
	13	−7.17	+1.45	+0.41	+13.8	−27.8	+5.0	8.19903	−94	+66
	14	−5.72	+1.72	+0.27	−14.0	−21.1	+6.7	8.19809	−21	+73
	15	−4.00	+1.82	+0.10	−35.1	−13.5	+7.6	8.19788	+63	+84
	16	−2.18	+1.72	−0.10	−48.6	−6.0	+7.5	8.19851	+154	+91
	17	−0.46	+1.48	−0.24	−54.6	+0.8	+6.8	8.20005	+254	+100
	18	+1.02	+1.15	−0.33	−53.8	+6.3	+5.5	8.20259	+362	+108
	19	+2.17	+0.76	−0.39	−47.5	+10.4	+4.1	8.20621	+470	+108
	20	+2.93	+0.31	−0.45	−37.1	+13.3	+2.9	8.21091	+569	+99
	21	+3.24	−0.17	−0.48	−23.8	+15.1	+1.8	8.21660	+651	+82
	22	+3.07		−0.50	−8.7		+1.4	8.22311		+50
Juli	4	−9.09 s	−0.45 s		+210.7″	−20.7″		8.22443	−640	
	5	−9.54	−0.39	+0.06 s	+190.0	−27.8	−7.1″	8.21803	−567	+73
	6	−9.93	−0.20	+0.19	+162.2	−33.1	−5.3	8.21236	−477	+90
	7	−10.13	+0.10	+0.30	+129.1	−36.1	−3.0	8.20759	−380	+97
	8	−10.03	+0.51	+0.41	+93.0	−36.4	−0.3	8.20379	−283	+97
	9	−9.52	+0.98	+0.47	+56.6	−34.4	+2.0	8.20096	−190	+93
	10	−8.54	+1.40	+0.42	+22.2	−30.0	+4.4	8.19906	−106	+84
	11	−7.14	+1.69	+0.29	−7.8	−23.6	+6.4	8.19800	−28	+78
	12	−5.45	+1.80	+0.11	−31.4	−16.2	+7.4	8.19772	+45	+73
	13	−3.65	+1.74	−0.06	−47.6	−8.6	+7.6	8.19817	+117	+72
	14	−1.91	+1.53	−0.21	−56.2	−1.4	+7.2	8.19934	+189	+72
	15	−0.38	+1.24	−0.29	−57.6	+4.8	+6.2	8.20123	+263	+74
	16	+0.86	+0.90	−0.34	−52.8	+9.7	+4.9	8.20386	+343	+80
	17	+1.76	+0.53	−0.37	−43.1	+13.4	+3.7	8.20729	+424	+81
	18	+2.29	+0.15	−0.38	−29.7	+16.0	+2.6	8.21153	+503	+79
	19	+2.44	−0.22	−0.37	−13.7	+17.8	+1.8	8.21656	+574	+71
	20	+2.22	−0.58	−0.36	+4.1	+19.5	+1.7	8.22230	+625	+51
	21	+1.64		−0.34	+23.6		+1.7	8.22855		+18
Aug.	3	−10.85 s	−0.14 s		+139.1″	−36.1″		8.21268	−519	
	4	−10.99	+0.34	+0.48 s	+103.0	−37.5	−1.4″	8.20749	−406	+113
	5	−10.65	+0.85	+0.51	+65.5	−36.0	+1.5	8.20343	−285	+121
	6	−9.80	+1.32	+0.47	+29.5	−32.0	+4.0	8.20058	−169	+116
	7	−8.48	+1.66	+0.34	−2.5	−25.9	+6.1	8.19889	−63	+106
	8	−6.82	+1.81	+0.15	−28.4	−18.6	+7.3	8.19826	+33	+96
	9	−5.01	+1.75	−0.06	−47.0	−10.9	+7.7	8.19859	+116	+83
	10	−3.26	+1.55	−0.20	−57.9	−3.6	+7.3	8.19975	+185	+69
	11	−1.71		−0.30	−61.5		+6.4	8.20160		+57

Tag		0ʰ Welt-Zeit								
		$\alpha_{☾}-\alpha_k$ (s)			$\delta_{☾}-\delta_k$ (″)			log sin p_k		
1938										
Aug.	11	− 1.71	+1.25	−0.30	− 61.5	+ 2.8	+6.4	8.20160	+242	+ 57
	12	− 0.46	+0.89	−0.36	− 58.7	+ 8.2	+5.4	8.20402	+294	+ 52
	13	+ 0.43	+0.53	−0.36	− 50.5	+12.5	+4.3	8.20696	+342	+ 48
	14	+ 0.96	+0.19	−0.34	− 38.0	+15.8	+3.3	8.21038	+386	+ 44
	15	+ 1.15	−0.12	−0.31	− 22.2	+18.3	+2.5	8.21424	+427	+ 41
	16	+ 1.03	−0.38	−0.26	− 3.9	+20.5	+2.2	8.21851	+467	+ 40
	17	+ 0.65	−0.58	−0.20	+ 16.6	+22.3	+1.8	8.22318	+497	+ 30
	18	+ 0.07	−0.70	−0.12	+ 38.9	+24.0	+1.7	8.22815	+509	+ 12
	19	− 0.63	−0.74	−0.04	+ 62.9	+25.5	+1.5	8.23324	+493	− 16
	20	− 1.37		+0.02	+ 88.4		+1.0	8.23817		− 50
Sept.	2	−10.54	+1.15		+ 36.5	−33.8		8.20385	−284	
	3	− 9.39	+1.58	+0.43	+ 2.7	−28.1	+5.7	8.20101	−152	+132
	4	− 7.81	+1.81	+0.23	− 25.4	−20.8	+7.3	8.19949	− 24	+128
	5	− 6.00	+1.81	0.00	− 46.2	−13.0	+7.8	8.19925	+ 92	+116
	6	− 4.19	+1.62	−0.19	− 59.2	− 5.4	+7.6	8.20017	+190	+ 98
	7	− 2.57	+1.29	−0.33	− 64.6	+ 1.2	+6.6	8.20207	+268	+ 78
	8	− 1.28	+0.90	−0.39	− 63.4	+ 6.7	+5.5	8.20475	+324	+ 56
	9	− 0.38	+0.48	−0.42	− 56.7	+11.1	+4.4	8.20799	+360	+ 36
	10	+ 0.10	+0.09	−0.39	− 45.6	+14.8	+3.7	8.21159	+378	+ 18
	11	+ 0.19	−0.26	−0.35	− 30.8	+17.8	+3.0	8.21537	+383	+ 5
	12	− 0.07	−0.52	−0.26	− 13.0	+20.5	+2.7	8.21920	+378	− 5
	13	− 0.59	−0.67	−0.15	+ 7.5	+23.0	+2.5	8.22298	+369	− 9
	14	− 1.26	−0.69	−0.02	+ 30.5	+25.3	+2.3	8.22667	+354	− 15
	15	− 1.95	−0.59	+0.10	+ 55.8	+26.9	+1.6	8.23021	+335	− 19
	16	− 2.54	−0.40	+0.19	+ 82.7	+27.4	+0.5	8.23356	+308	− 27
	17	− 2.94	−0.22	+0.18	+110.1	+26.3	−1.1	8.23664	+266	− 42
	18	− 3.16		+0.08	+136.4		−2.7	8.23930		− 65
Okt.	1	− 8.31	+1.75		− 21.0	−23.0		8.20133	−133	
	2	− 6.56	+1.86	+0.11	− 44.0	−15.0	+8.0	8.20000	+ 7	+140
	3	− 4.70	+1.74	−0.12	− 59.0	− 7.0	+8.0	8.20007	+141	+134
	4	− 2.96	+1.45	−0.29	− 66.0	0.0	+7.0	8.20148	+259	+118
	5	− 1.51	+1.05	−0.40	− 66.0	+ 5.8	+5.8	8.20407	+356	+ 97
	6	− 0.46	+0.58	−0.47	− 60.2	+10.4	+4.6	8.20763	+425	+ 69
	7	+ 0.12	+0.10	−0.48	− 49.8	+13.9	+3.5	8.21188	+462	+ 37
	8	+ 0.22	−0.35	−0.45	− 35.9	+16.7	+2.8	8.21650	+466	+ 4
	9	− 0.13	−0.72	−0.37	− 19.2	+19.4	+2.7	8.22116	+440	− 26
	10	− 0.85	−0.97	−0.25	+ 0.2	+22.3	+2.9	8.22556	+388	− 52
	11	− 1.82	−1.04	−0.07	+ 22.5	+25.4	+3.1	8.22944	+322	− 66
	12	− 2.86	−0.92	+0.12	+ 47.9	+28.0	+2.6	8.23266	+248	− 74
	13	− 3.78	−0.62	+0.30	+ 75.9	+29.3	+1.3	8.23514	+175	− 73
	14	− 4.40	−0.26	+0.36	+105.2	+28.5	−0.8	8.23689	+107	− 68
	15	− 4.66	+0.03	+0.29	+133.7	+25.4	−3.1	8.23796	+ 46	− 61
	16	− 4.63	+0.14	+0.11	+159.1	+20.4	−5.0	8.23842	− 11	− 57
	17	− 4.49		−0.08	+179.5		−6.3	8.23831		− 57

Tag		$\alpha_{☾}-\alpha_k$ (s)	Δ¹	Δ²	$\delta_{☾}-\delta_k$ (″)	Δ¹	Δ²	log sin p_k	Δ¹	Δ²
		0h Welt-Zeit								
1938										
Okt.	31	−3.21			− 65.4			8.20004		
Nov.	1	−1.56	+1.65	−0.34	− 66.6	− 1.2	+6.5	8.20174	+170	+135
	2	−0.25	+1.31	−0.43	− 61.3	+ 5.3	+5.0	8.20479	+305	+119
	3	+0.63	+0.88	−0.50	− 51.0	+10.3	+3.6	8.20903	+424	+ 93
	4	+1.01	+0.38	−0.50	− 37.1	+13.9	+2.6	8.21420	+517	+ 57
	5	+0.89	−0.12	−0.49	− 20.6	+16.5	+2.0	8.21994	+574	+ 14
	6	+0.28	−0.61	−0.42	− 2.1	+18.5	+2.2	8.22582	+588	− 34
	7	−0.75	−1.03	−0.29	+ 18.6	+20.7	+2.8	8.23136	+554	− 78
	8	−2.07	−1.32	−0.06	+ 42.1	+23.5	+3.2	8.23612	+476	−114
	9	−3.45	−1.38	+0.18	+ 68.8	+26.7	+2.7	8.23974	+362	−135
	10	−4.65	−1.20	+0.39	+ 98.2	+29.4	+1.0	8.24201	+227	−141
	11	−5.46	−0.81	+0.43	+128.6	+30.4	−1.8	8.24287	+ 86	−131
	12	−5.84	−0.38	+0.32	+157.2	+28.6	−4.8	8.24242	− 45	−108
	13	−5.90	−0.06	+0.12	+181.0	+23.8	−6.9	8.24089	−153	− 81
	14	−5.84	+0.06	−0.06	+197.9	+16.9	−8.0	8.23855	−234	− 55
	15	−5.84	0.00	−0.21	+206.8	+ 8.9	−8.3	8.23566	−289	− 34
	16	−6.05	−0.21	−0.25	+207.4	+ 0.6	−7.9	8.23243	−323	− 22
Nov.	30	+0.79			− 51.6			8.20416		
Dez.	1	+1.57	+0.78	−0.45	− 37.2	+14.4	+2.9	8.20862	+446	+114
	2	+1.90	+0.33	−0.46	− 19.9	+17.3	+1.8	8.21422	+560	+ 86
	3	+1.77	−0.13	−0.47	− 0.8	+19.1	+1.1	8.22068	+646	+ 44
	4	+1.17	−0.60	−0.43	+ 19.4	+20.2	+1.4	8.22758	+690	− 11
	5	+0.14	−1.03	−0.32	+ 41.0	+21.6	+2.0	8.23437	+679	− 69
	6	−1.21	−1.35	−0.13	+ 64.6	+23.6	+2.6	8.24047	+610	−126
	7	−2.69	−1.48	+0.09	+ 90.8	+26.2	+2.6	8.24531	+484	−174
	8	−4.08	−1.39	+0.30	+119.6	+28.8	+0.5	8.24841	+310	−199
	9	−5.17	−1.09	+0.35	+148.9	+29.3	−2.4	8.24952	+111	−198
	10	−5.91	−0.74	+0.25	+175.8	+26.9	−5.5	8.24865	− 87	−176
	11	−6.40	−0.49	+0.12	+197.2	+21.4	−8.0	8.24602	−263	−134
	12	−6.77	−0.37	−0.04	+210.6	+13.4	−9.2	8.24205	−397	− 86
	13	−7.18	−0.41	−0.11	+214.8	+ 4.2	−9.3	8.23722	−483	− 39
	14	−7.70	−0.52	−0.12	+209.7	− 5.1	−8.7	8.23200	−522	− 3
	15	−8.34	−0.64	−0.09	+195.9	−13.8	−7.8	8.22675	−525	+ 23
Dez.	30	+2.24			− 1.5			8.21282		
	31	+2.23	−0.01	−0.36	+ 19.9	+21.4	+0.5	8.21922	+640	+ 74
	32	+1.86	−0.37		+ 41.8	+21.9		8.22636	+714	

Verfinsterungen: E. Eintritte, A. Austritte (in Welt-Zeit)

TRABANT I

		h	m	
Jan.	1	6	30.5	A.
	3	0	59.1	A.
	4	19	27.9	A.
	6	13	56.6	A.
	8	8	25.3	A.
	10	2	54.0	A.
	11	21	22.7	A.
		h	m	
März	28	21	35.1	E.
	30	16	3.7	E.
April	1	10	32.2	E.
	3	5	0.8	E.
	4	23	29.3	E.
	6	17	57.9	E.
	8	12	26.4	E.
	10	6	55.0	E.
	12	1	23.5	E.
	13	19	52.0	E.
	15	14	20.5	E.
	17	8	49.1	E.
	19	3	17.6	E.
	20	21	46.2	E.
	22	16	14.6	E.
	24	10	43.2	E.
	26	5	11.7	E.
	27	23	40.3	E.
	29	18	8.8	E.
Mai	1	12	37.3	E.
	3	7	5.8	E.
	5	1	34.4	E.
	6	20	2.8	E.
	8	14	31.4	E.
	10	8	59.9	E.
	12	3	28.5	E.
	13	21	56.9	E.
	15	16	25.5	E.
	17	10	54.0	E.
	19	5	22.5	E.
	20	23	51.0	E.
	22	18	19.6	E.
	24	12	48.0	E.
	26	7	16.6	E.
	28	1	45.1	E.
	29	20	13.6	E.
	31	14	42.1	E.

TRABANT I

		h	m	
Juni	2	9	10.7	E.
	4	3	39.2	E.
	5	22	7.7	E.
	7	16	36.2	E.
	9	11	4.8	E.
	11	5	33.2	E.
	13	0	1.8	E.
	14	18	30.3	E.
	16	12	58.9	E.
	18	7	27.4	E.
	20	1	55.9	E.
	21	20	24.4	E.
	23	14	53.0	E.
	25	9	21.5	E.
	27	3	50.1	E.
	28	22	18.6	E.
	30	16	47.2	E.
Juli	2	11	15.7	E.
	4	5	44.3	E.
	6	0	12.8	E.
	7	18	41.4	E.
	9	13	9.9	E.
	11	7	38.6	E.
	13	2	7.1	E.
	14	20	35.8	E.
	16	15	4.2	E.
	18	9	32.9	E.
	20	4	1.4	E.
	21	22	30.1	E.
	23	16	58.6	E.
	25	11	27.3	E.
	27	5	55.8	E.
	29	0	24.5	E.
	30	18	53.1	E.
Aug.	1	13	21.7	E.
	3	7	50.3	E.
	5	2	19.0	E.
	6	20	47.6	E.
	8	15	16.3	E.
	10	9	44.9	E.
	12	4	13.6	E.
	13	22	42.2	E.
	15	17	10.9	E.
	17	11	39.5	E.
	19	6	8.3	E.
	21	2	54.8	A.

TRABANT I

		h	m	
Aug.	22	21	23.5	A.
	24	15	52.1	A.
	26	10	20.8	A.
	28	4	49.5	A.
	29	23	18.2	A.
	31	17	46.9	A.
Sept.	2	12	15.6	A.
	4	6	44.3	A.
	6	1	13.0	A.
	7	19	41.7	A.
	9	14	10.5	A.
	11	8	39.2	A.
	13	3	7.9	A.
	14	21	36.6	A.
	16	16	5.4	A.
	18	10	34.1	A.
	20	5	2.9	A.
	21	23	31.6	A.
	23	18	0.5	A.
	25	12	29.2	A.
	27	6	58.0	A.
	29	1	26.7	A.
	30	19	55.6	A.
Okt.	2	14	24.3	A.
	4	8	53.1	A.
	6	3	21.9	A.
	7	21	50.7	A.
	9	16	19.5	A.
	11	10	48.3	A.
	13	5	17.1	A.
	14	23	45.9	A.
	16	18	14.6	A.
	18	12	43.5	A.
	20	7	12.3	A.
	22	1	41.1	A.
	23	20	9.9	A.
	25	14	38.8	A.
	27	9	7.6	A.
	29	3	36.4	A.
	30	22	5.2	A.
Nov.	1	16	34.0	A.
	3	11	2.8	A.
	5	5	31.7	A.
	7	0	0.5	A.
	8	18	29.3	A.
	10	12	58.1	A.

TRABANT I

		h	m	
Nov.	12	7	27.0	A.
	14	1	55.8	A.
	15	20	24.6	A.
	17	14	53.4	A.
	19	9	22.2	A.
	21	3	51.1	A.
	22	22	19.9	A.
	24	16	48.7	A.
	26	11	17.5	A.
	28	5	46.3	A.
	30	0	15.1	A.
Dez.	1	18	43.9	A.
	3	13	12.8	A.
	5	7	41.6	A.
	7	2	10.4	A.
	8	20	39.2	A.
	10	15	8.0	A.
	12	9	36.8	A.
	14	4	5.6	A.
	15	22	34.4	A.
	17	17	3.2	A.
	19	11	32.0	A.
	21	6	0.8	A.
	23	0	29.6	A.
	24	18	58.3	A.
	26	13	27.1	A.
	28	7	55.9	A.
	30	2	24.7	A.
	31	20	53.5	A.

TRABANT II

		h	m	
Jan.	1	15	53.6	A.
	5	5	11.8	A.
	8	18	30.3	A.
		h	m	
März	31	9	23.8	E.
April	3	22	40.9	E.
	7	11	58.0	E.
	11	1	15.1	E.
	14	14	32.1	E.
	18	3	49.1	E.
	21	17	6.2	E.

Verfinsterungen: E. Eintritte, A. Austritte (in Welt-Zeit)

TRABANT II

		h m	
April	25	6 23.1	E.
	28	19 40.1	E.
Mai	2	8 57.0	E.
	5	22 13.9	E.
	9	11 30.8	E.
	13	0 47.7	E.
	16	14 4.7	E.
	20	3 21.6	E.
	23	16 38.5	E.
	27	5 55.4	E.
	30	19 12.4	E.
Juni	3	8 29.3	E.
	6	21 46.3	E.
	10	11 3.3	E.
	14	0 20.3	E.
	17	13 37.3	E.
	21	2 54.4	E.
	24	16 11.5	E.
	28	5 28.7	E.
Juli	1	18 45.9	E.
	5	8 3.2	E.
	8	21 20.4	E.
	12	10 37.8	E.
	15	23 55.1	E.
	19	13 12.6	E.
	23	2 30.1	E.
	26	15 47.6	E.
	30	5 5.3	E.
Aug.	2	18 23.0	E.
	6	7 40.8	E.
	9	20 58.6	E.
	13	10 16.5	E.
	16	23 34.5	E.
	20	12 52.6	E.
	24	5 2.2	A.
	27	18 20.6	A.
	31	7 38.7	A.
Sept.	3	20 57.2	A.
	7	10 15.4	A.
	10	23 34.1	A.
	14	12 52.5	A.
	18	2 11.4	A.
	21	15 29.8	A.
	25	4 48.8	A.
	28	18 7.3	A.
Okt.	2	7 26.5	A.

TRABANT II

		h m	
Okt.	5	20 45.1	A.
	9	10 4.5	A.
	12	23 23.1	A.
	16	12 42.6	A.
	20	2 1.4	A.
	23	15 20.9	A.
	27	4 39.7	A.
	30	17 59.4	A.
Nov.	3	7 18.3	A.
	6	20 38.0	A.
	10	9 56.9	A.
	13	23 16.7	A.
	17	12 35.7	A.
	21	1 55.5	A.
	24	15 14.5	A.
	28	4 34.3	A.
Dez.	1	17 53.3	A.
	5	7 13.2	A.
	8	20 32.1	A.
	12	9 52.0	A.
	15	23 10.9	A.
	19	12 30.8	A.
	23	1 49.7	A.
	26	15 9.5	A.
	30	4 28.4	A.

TRABANT III

		h m	
Jan.	4	4 48.7	A.
	11	8 49.2	A.
		h m	
März	31	1 12.0	E.
	31	4 51.8	A.
April	7	5 11.9	E.
	7	8 51.6	A.
	14	9 12.2	E.
	14	12 51.8	A.
	21	13 12.0	E.
	21	16 51.5	A.
	28	17 11.6	E.
	28	20 51.1	A.
Mai	5	21 11.4	E.
	6	0 50.8	A.
	13	1 11.3	E.

TRABANT III

		h m	
Mai	13	4 50.5	A.
	20	5 11.6	E.
	20	8 50.8	A.
	27	9 11.5	E.
	27	12 50.4	A.
Juni	3	13 11.8	E.
	3	16 50.5	A.
	10	17 11.6	E.
	10	20 50.1	A.
	17	21 11.4	E.
	18	0 49.7	A.
	25	1 11.5	E.
	25	4 49.5	A.
Juli	2	5 11.6	E.
	2	8 49.3	A.
	9	9 12.3	E.
	9	12 49.7	A.
	16	13 12.5	E.
	23	17 13.3	E.
	30	21 13.7	E.
Aug.	7	1 14.1	E.
	14	5 14.8	E.
	21	12 50.9	A.
	28	16 52.0	A.
Sept.	4	20 52.8	A.
	12	0 53.8	A.
	19	4 54.6	A.
	26	8 55.3	A.
Okt.	3	9 24.2	E.
	3	12 56.5	A.
	10	13 25.8	E.
	10	16 57.7	A.
	17	17 28.2	E.
	17	20 59.5	A.
	24	21 30.0	E.
	25	1 0.7	A.
Nov.	1	1 32.1	E.
	1	5 2.2	A.
	8	5 33.9	E.
	8	9 3.3	A.
	15	9 35.7	E.
	15	13 4.4	A.
	22	13 37.6	E.
	22	17 5.8	A.
	29	17 39.6	E.
	29	21 7.2	A.

TRABANT III

		h m	
Dez.	6	21 42.2	E.
	7	1 9.0	A.
	14	1 44.0	E.
	14	5 10.2	A.
	21	5 46.1	E.
	21	9 11.6	A.
	28	9 47.9	E.
	28	13 12.5	A.

TRABANT IV

		h m	
Jan.	10	6 25.4	A.
		h m	
April	3	20 20.1	E.
	4	1 8.0	A.
	20	14 26.3	E.
	20	19 15.2	A.
Mai	7	8 33.1	E.
	7	13 22.7	A.
	24	2 39.7	E.
	24	7 29.8	A.
Juni	9	20 46.9	E.
	10	1 36.6	A.
	26	14 54.9	E.
	26	19 44.2	A.
Juli	13	9 3.4	E.
	13	13 51.5	A.
	30	3 12.6	E.
	30	7 59.5	A.
Aug.	15	21 23.4	E.
Sept.	1	20 17.7	A.
	18	9 47.2	E.
	18	14 27.5	A.
Okt.	5	4 1.0	E.
	5	8 38.5	A.
	21	22 15.3	E.
	22	2 49.2	A.
Nov.	7	16 30.2	E.
	7	21 0.3	A.
	24	10 46.0	E.
	24	15 11.8	A.
Dez.	11	5 1.7	E.
	11	9 22.6	A.
	27	23 17.9	E.
	28	3 33.5	A.

0h Welt-Zeit		α	β	p_α	a	b	U′	B′	P′
1938		"	"	"	"	"	°	°	°
Jan.	−4	17.47	15.65	+0.05	39.34	−1.87	195.445	− 5.432	+26.996
	+4	17.23	15.44	0.04	38.81	1.99	195.689	5.552	26.962
	12	17.01	15.24	0.04	38.31	2.14	195.933	5.671	26.927
	20	16.80	15.06	0.03	37.85	2.31	196.177	5.791	26.891
	28	16.61	14.89	0.03	37.42	2.50	196.422	5.910	26.855
Febr.	5	16.44	14.74	+0.02	37.04	−2.71	196.667	− 6.029	+26.818
	13	16.30	14.61	0.02	36.72	2.94	196.912	6.148	26.781
	21	16.18	14.50	0.01	36.45	3.18	197.157	6.268	26.743
März	1	16.08	14.42	0.01	36.22	3.43	197.402	6.387	26.705
	9	16.01	14.36	+0.01	36.05	3.69	197.648	6.506	26.666
	17	15.96	14.32	0.00	35.94	−3.96	197.894	− 6.625	+26.627
	25	15.93	14.30	0.00	35.89	4.23	198.140	6.744	26.587
April	2	15.93	14.30	0.00	35.89	4.51	198.387	6.863	26.546
	10	15.95	14.32	0.00	35.94	4.79	198.634	6.982	26.505
	18	16.00	14.37	0.00	36.04	5.07	198.881	7.101	26.463
	26	16.07	14.44	−0.01	36.20	−5.35	199.128	− 7.219	+26.421
Mai	4	16.17	14.53	0.01	36.42	5.63	199.375	7.338	26.378
	12	16.29	14.64	0.02	36.69	5.90	199.623	7.456	26.334
	20	16.43	14.77	0.02	37.00	6.17	199.871	7.575	26.290
	28	16.59	14.92	0.03	37.36	6.43	200.119	7.693	26.245
Juni	5	16.77	15.08	−0.03	37.76	−6.68	200.367	− 7.812	+26.200
	13	16.97	15.26	0.04	38.21	6.92	200.616	7.930	26.155
	21	17.18	15.46	0.04	38.70	7.15	200.865	8.048	26.109
	29	17.41	15.67	0.05	39.22	7.36	201.114	8.166	26.062
Juli	7	17.65	15.89	0.05	39.77	7.55	201.364	8.284	26.015
	15	17.90	16.11	−0.05	40.34	−7.71	201.614	− 8.402	+25.967
	23	18.16	16.34	0.05	40.91	7.84	201.864	8.520	25.919
	31	18.42	16.57	0.05	41.49	7.94	202.114	8.638	25.870
Aug.	8	18.67	16.80	0.04	42.06	8.01	202.365	8.755	25.820
	16	18.91	17.02	0.04	42.60	8.04	202.616	8.872	25.770
	24	19.14	17.22	−0.03	43.11	−8.03	202.867	− 8.989	+25.719
Sept.	1	19.34	17.40	0.02	43.56	7.98	203.119	9.106	25.668
	9	19.51	17.55	0.02	43.95	7.89	203.371	9.223	25.616
	17	19.65	17.67	−0.01	44.26	7.77	203.623	9.340	25.564
	25	19.75	17.76	0.00	44.48	7.61	203.875	9.457	25.511
Okt.	3	19.80	17.81	0.00	44.61	−7.43	204.128	− 9.574	+25.457
	11	19.81	17.81	0.00	44.63	7.22	204.381	9.690	25.403
	19	19.77	17.77	0.00	44.54	7.00	204.634	9.807	25.348
	27	19.69	17.69	+0.01	44.36	6.78	204.888	9.923	25.293
Nov.	4	19.56	17.58	0.01	44.08	6.57	205.142	10.040	25.237
	12	19.40	17.43	+0.02	43.71	−6.38	205.396	−10.156	+25.180
	20	19.21	17.25	0.03	43.27	6.21	205.650	10.272	25.123
	28	18.99	17.05	0.03	42.78	6.06	205.905	10.388	25.065
Dez.	6	18.75	16.84	0.04	42.24	5.94	206.160	10.504	25.007
	14	18.50	16.61	0.04	41.67	5.86	206.416	10.619	24.948
	22	18.24	16.38	0.05	41.09	5.82	206.672	10.734	24.889
	30	17.98	16.15	+0.05	40.50	−5.81	206.928	−10.849	+24.829

Saturn und Saturnsring 1938

0^h Welt-Zeit	U	B	P	$\log \frac{(\Delta)}{\Delta}$	0^h Welt-Zeit	U	B	P	$\log \frac{(\Delta)}{\Delta}$
1938	°	°	°		1938	°	°	°	
Jan. −4	232.019	−2.728	+4.148	9.99990	Juni 29	248.497	−10.813	+2.473	9.99857
0	232.181	2.829	4.133	9.99691	Juli 3	248.687	10.880	2.453	0.00155
+4	232.366	2.942	4.115	9.99398	7	248.854	10.937	2.435	0.00458
8	232.574	3.066	4.095	9.99112	11	248.998	10.983	2.419	0.00764
12	232.804	3.201	4.073	9.98834	15	249.118	11.017	2.406	0.01072
16	233.054	−3.346	+4.049	9.98565	19	249.213	−11.040	+2.395	0.01381
20	233.324	3.500	4.023	9.98305	23	249.284	11.051	2.387	0.01689
24	233.613	3.663	3.995	9.98056	27	249.329	11.051	2.382	0.01996
28	233.920	3.835	3.966	9.97818	31	249.349	11.040	2.380	0.02299
Febr. 1	234.244	4.014	3.935	9.97592	Aug. 4	249.343	11.017	2.381	0.02597
5	234.585	−4.201	+3.902	9.97380	8	249.312	−10.983	+2.384	0.02889
9	234.940	4.394	3.868	9.97181	12	249.256	10.938	2.390	0.03173
13	235.309	4.593	3.832	9.96996	16	249.175	10.883	2.399	0.03447
17	235.691	4.797	3.795	9.96826	20	249.070	10.817	2.410	0.03710
21	236.085	5.006	3.756	9.96670	24	248.941	10.741	2.424	0.03961
25	236.489	−5.219	+3.716	9.96530	28	248.790	−10.655	+2.440	0.04197
März 1	236.903	5.435	3.675	9.96406	Sept. 1	248.617	10.561	2.459	0.04417
5	237.325	5.654	3.633	9.96297	5	248.424	10.458	2.480	0.04619
9	237.755	5.876	3.591	9.96205	9	248.212	10.348	2.503	0.04803
13	238.191	6.099	3.548	9.96129	13	247.984	10.231	2.528	0.04967
17	238.631	−6.323	+3.504	9.96070	17	247.740	−10.109	+2.554	0.05110
21	239.076	6.548	3.459	9.96027	21	247.483	9.982	2.581	0.05230
25	239.525	6.772	3.414	9.96001	25	247.215	9.850	2.610	0.05327
29	239.976	6.996	3.368	9.95991	29	246.938	9.716	2.640	0.05399
April 2	240.427	7.218	3.322	9.95998	Okt. 3	246.655	9.580	2.670	0.05447
6	240.878	−7.438	+3.276	9.96022	7	246.368	−9.444	+2.701	0.05469
10	241.328	7.656	3.230	9.96062	11	246.079	9.308	2.731	0.05466
14	241.776	7.871	3.184	9.96119	15	245.792	9.174	2.762	0.05438
18	242.221	8.083	3.138	9.96191	19	245.508	9.044	2.792	0.05384
22	242.661	8.291	3.092	9.96279	23	245.230	8.918	2.822	0.05306
26	243.096	−8.495	+3.047	9.96383	27	244.961	−8.797	+2.850	0.05203
30	243.525	8.694	3.003	9.96503	31	244.703	8.683	2.877	0.05076
Mai 4	243.946	8.888	2.959	9.96638	Nov. 4	244.458	8.576	2.903	0.04926
8	244.359	9.076	2.916	9.96788	8	244.228	8.477	2.927	0.04755
12	244.762	9.257	2.873	9.96952	12	244.015	8.388	2.949	0.04564
16	245.155	−9.432	+2.831	9.97130	16	243.821	−8.309	+2.970	0.04354
20	245.537	9.600	2.791	9.97322	20	243.648	8.241	2.988	0.04126
24	245.906	9.761	2.752	9.97527	24	243.497	8.185	3.004	0.03883
28	246.261	9.914	2.714	9.97744	28	243.369	8.140	3.017	0.03625
Juni 1	246.602	10.059	2.678	9.97974	Dez. 2	243.266	8.108	3.028	0.03354
5	246.927	−10.195	+2.643	9.98215	6	243.187	−8.088	+3.036	0.03073
9	247.236	10.322	2.610	9.98466	10	243.134	8.081	3.041	0.02782
13	247.527	10.440	2.578	9.98727	14	243.107	8.088	3.044	0.02484
17	247.800	10.548	2.548	9.98998	18	243.106	8.108	3.044	0.02181
21	248.053	10.647	2.521	9.99277	22	243.132	8.140	3.042	0.01873
25	248.285	10.735	2.496	9.99564	26	243.185	8.186	3.036	0.01563
29	248.497	−10.813	+2.473	9.99857	30	243.264	−8.244	+3.028	0.01252

0^h Welt-Zeit	MIMAS L	MIMAS M	ENCELADUS L	ENCELADUS M	TETHYS L	DIONE L	DIONE M	RHEA L	RHEA M
1938	°	°	°	°	°	°	°	°	°
Jan. −12	214.602	66.42	33.204	318.8	341.824	234.623	130.1	157.180	346.7
+ 4	206.331	42.15	276.924	197.1	152.998	179.180	73.3	352.220	181.9
20	198.059	17.86	160.644	75.4	324.172	123.737	16.5	187.259	17.0
Juni 13	123.621	159.30	194.130	60.3	64.735	344.749	225.4	142.615	333.3
29	115.350	135.01	77.851	298.6	235.908	289.306	168.6	337.654	168.4
Juli 15	107.080	110.73	321.571	176.9	47.082	233.863	111.8	172.694	3.6
31	98.810	86.44	205.290	55.2	218.256	178.420	55.0	7.733	198.7
Aug. 16	90.540	62.16	89.010	293.5	29.429	122.977	358.2	202.773	33.8
Sept. 1	82.270	37.88	332.728	171.8	200.603	67.534	301.4	37.812	229.0
17	74.001	13.59	216.446	50.2	11.777	12.092	244.6	232.852	64.1
Okt. 3	65.731	349.31	100.163	288.5	182.950	316.649	187.8	67.892	259.2
19	57.462	325.03	343.879	166.8	354.124	261.206	131.0	262.931	94.4
Nov. 4	49.193	300.75	227.595	45.1	165.298	205.763	74.3	97.971	289.5
20	40.923	276.46	111.309	283.4	336.471	150.320	17.5	293.010	124.7
Dez. 6	32.654	252.18	355.023	161.7	147.645	94.878	320.7	128.050	319.8
22	24.386	227.90	238.736	40.0	318.819	39.435	263.9	323.089	154.9
38	16.117	203.61	122.448	278.3	129.992	343.993	207.1	158.129	350.1

0^h Welt-Zeit	TITAN L	TITAN M	HYPERION L	HYPERION M	HYPERION e	HYPERION log a	JAPETUS L	JAPETUS M
1938	°	°	°	°			°	°
Jan. −12	12.832	194.82	304.305	0.09	0.08183	2.32981	304.949	351.89
+ 4	14.065	196.03	216.299	273.12	0.08183	2.32970	17.559	64.49
20	15.298	197.24	128.379	186.24	0.08192	2.32962	90.168	137.09
Juni 13	26.392	208.12	55.436	122.42	0.08701	2.33044	23.653	70.51
29	27.624	209.33	326.601	34.55	0.08793	2.33066	96.262	143.12
Juli 15	28.857	210.54	237.550	306.45	0.08888	2.33089	168.872	215.72
31	30.090	211.75	148.275	218.11	0.08984	2.33113	241.481	288.32
Aug. 16	31.322	212.96	58.775	129.53	0.09079	2.33136	314.090	0.92
Sept. 1	32.555	214.17	329.057	40.72	0.09172	2.33158	26.700	73.52
17	33.788	215.38	239.132	311.68	0.09262	2.33180	99.309	146.13
Okt. 3	35.020	216.59	149.016	222.44	0.09346	2.33200	171.919	218.73
19	36.253	217.80	58.729	133.02	0.09424	2.33217	244.528	291.33
Nov. 4	37.486	219.01	328.297	43.46	0.09496	2.33231	317.138	3.93
20	38.718	220.21	237.748	313.76	0.09560	2.33242	29.747	76.53
Dez. 6	39.951	221.42	147.114	223.96	0.09614	2.33250	102.356	149.14
22	41.184	222.63	56.427	134.11	0.09658	2.33255	174.966	221.74
38	42.416	223.84	325.722	44.24	0.09692	2.33256	247.575	294.34

Saturnstrabanten 1938

Bewegung der mittleren Länge *L* und der mittleren Anomalie *M*

Zeit	Mimas		Enceladus		Tethys	Dione		Rhea		Titan		Japetus	
	L	*M*	*L*	*M*	*L*	*L*	*M*	*L*	*M*	*L*	*M*	*L*	*M*
d	°	°	°	°	°	°	°	°	°	°	°	°	°
1	21.9831	20.982	262.7323	262.39	190.6984	131.5348	131.45	79.6900	79.70	22.5771	22.576	4.5381	4.538
2	43.9662	41.964	165.4646	164.79	21.3968	263.0696	262.90	159.3799	159.39	45.1541	45.151	9.0762	9.075
3	65.9494	62.947	68.1969	67.18	212.0951	34.6044	34.35	239.0699	239.09	67.7312	67.727	13.6143	13.612
4	87.9325	83.929	330.9292	329.58	42.7935	166.1392	165.80	318.7599	318.79	90.3082	90.302	18.1524	18.150
5	109.9156	104.911	233.6616	231.97	233.4919	297.6741	297.25	38.4498	38.48	112.8853	112.878	22.6905	22.688
6	131.8987	125.893	136.3939	134.36	64.1903	69.2089	68.70	118.1398	118.18	135.4624	135.454	27.2286	27.225
7	153.8819	146.875	39.1262	36.76	254.8886	200.7437	200.15	197.8298	197.88	158.0394	158.029	31.7667	31.762
8	175.8650	167.858	301.8585	299.15	85.5870	332.2785	331.60	277.5197	277.57	180.6165	180.605	36.3048	36.300
9	197.8481	188.840	204.5908	201.54	276.2854	103.8133	103.05	357.2097	357.27	203.1936	203.181	40.8428	40.838
10	219.8312	209.822	107.3231	103.94	106.9838	235.3481	234.50	76.8997	76.97	225.7706	225.756	45.3809	45.375
11	241.8144	230.804	10.0554	6.33	297.6821	6.8829	5.95	156.5897	156.67	248.3477	248.332	49.9190	49.912
12	263.7975	251.786	272.7877	268.72	128.3805	138.4177	137.40	236.2796	236.36	270.9247	270.908	54.4571	54.450
13	285.7806	272.768	175.5201	171.12	319.0789	269.9526	268.85	315.9696	316.06	293.5018	293.483	58.9952	58.988
14	307.7637	293.751	78.2524	73.51	149.7772	41.4874	40.30	35.6596	35.76	316.0789	316.059	63.5333	63.525
15	329.7469	314.733	340.9847	335.91	340.4756	173.0222	171.75	115.3495	115.45	338.6559	338.634	68.0714	68.062
16	351.7300	335.715	243.7170	238.30	171.1740	304.5570	303.20	195.0395	195.15	361.2330	361.210	72.6095	72.600
d	°	°	°	°	°	°	°	°	°	°	°	°	°
0.1	38.1983	38.098	26.2732	26.24	19.0698	13.1535	13.14	7.9690	7.97	2.2577	2.258	0.4538	0.454
0.2	76.3966	76.196	52.5465	52.48	38.1397	26.3070	26.29	15.9380	15.94	4.5154	4.515	0.9076	0.908
0.3	114 5949	114.295	78.8197	78.72	57.2095	39.4604	39.44	23.9070	23.91	6.7731	6.773	1.3614	1.361
0.4	152.7932	152.393	105.0929	104.96	76.2794	52.6139	52.58	31.8760	31.88	9.0308	9.030	1.8152	1.815
0.5	190.9916	190.491	131.3662	131.20	95.3492	65.7674	65.72	39.8450	39.85	11.2885	11.288	2.2690	2.269
0.6	229.1899	228.589	157.6394	157.44	114.4190	78.9209	78.87	47.8140	47.82	13.5462	13.545	2.7229	2.722
0.7	267.3882	266.688	183.9126	183.68	133.4888	92.0744	92.02	55.7830	55.79	15.8039	15.803	3.1767	3.176
0.8	305.5865	304.786	210.1858	209.92	152.5587	105.2278	105.16	63.7520	63.76	18.0616	18.060	3.6305	3.630
0.9	343.7848	342.884	236.4591	236.15	171.6285	118.3813	118.30	71.7210	71.73	20.3194	20.318	4.0843	4.084
1.0	381.9831	380.982	262.7323	262.39	190.6984	131.5348	131.45	79.6900	79.70	22.5771	22.576	4.5381	4.538
d	°	°	°	°	°	°	°	°	°	°	°	°	°
0.01	3.8198	3.810	2.6273	2.62	1.9070	1.3153	1.31	0.7969	0.80	0.2258	0.226	0.0454	0.045
0.02	7.6397	7.620	5.2546	5.25	3.8140	2.6307	2.63	1.5938	1.59	0.4515	0.452	0.0908	0.091
0.03	11.4595	11.429	7.8820	7.87	5.7210	3.9460	3.94	2.3907	2.39	0.6773	0.677	0.1361	0.136
0.04	15.2793	15.239	10.5093	10.50	7.6279	5.2614	5.26	3.1876	3.19	0.9031	0.903	0.1815	0.182
0.05	19.0992	19.049	13.1366	13.12	9.5349	6.5767	6.57	3.9845	3.98	1.1289	1.129	0.2269	0.227
0.06	22.9190	22.859	15.7639	15.74	11.4419	7.8921	7.89	4.7814	4.78	1.3546	1.355	0.2723	0.272
0.07	26.7388	26.669	18.3913	18.37	13.3489	9.2074	9.20	5.5783	5.58	1.5804	1.580	0.3177	0.318
0.08	30.5586	30.479	21.0186	20.99	15.2559	10.5228	10.52	6.3752	6.38	1.8062	1.806	0.3630	0.363
0.09	34.3785	34.288	23.6459	23.62	17.1629	11.8381	11.83	7.1721	7.17	2.0319	2.032	0.4084	0.408
0.10	38.1983	38.098	26.2732	26.24	19.0698	13.1535	13.14	7.9690	7.97	2.2577	2.258	0.4538	0.454
d	°	°	°	°	°	°	°	°	°	°	°	°	°
0.001	0.3820	0.381	0.2627	0.26	0.1907	0.1315	0.13	0.0797	0.08	0.0226	0.023	0.0045	0.005
0.002	0.7640	0.762	0.5255	0.52	0.3814	0.2631	0.26	0.1594	0.16	0.0452	0.045	0.0091	0.009
0.003	1.1459	1.143	0.7882	0.79	0.5721	0.3946	0.39	0.2391	0.24	0.0677	0.068	0.0136	0.014
0.004	1.5279	1.524	1.0509	1.05	0.7628	0.5261	0.53	0.3188	0.32	0.0903	0.090	0.0182	0.018
0.005	1.9099	1.905	1.3137	1.31	0.9535	0.6577	0.66	0.3984	0.40	0.1129	0.113	0.0227	0.023
0.006	2.2919	2.286	1.5764	1.57	1.1442	0.7892	0.79	0.4781	0.48	0.1355	0.135	0.0272	0.027
0.007	2.6739	2.667	1.8391	1.84	1.3349	0.9207	0.92	0.5578	0.56	0.1580	0.158	0.0318	0.032
0.008	3.0559	3.048	2.1019	2.10	1.5256	1.0523	1.05	0.6375	0.64	0.1806	0.181	0.0363	0.036
0.009	3.4378	3.429	2.3646	2.36	1.7163	1.1838	1.18	0.7172	0.72	0.2032	0.203	0.0408	0.041
0.010	3.8198	3.810	2.6273	2.62	1.9070	1.3153	1.31	0.7969	0.80	0.2258	0.226	0.0454	0.045

0ʰ Welt-Zeit	ϑ					γ	N	J	ω
	Mimas	Encel.	Tethys	Dione	Rhea	Rhea	Saturnsring		
1938	°	°	°	°	°	′	°	°	°
Jan. —12	137.4	46.3	64.0	4.1	246.5	22.14	127.911	6.742	41.849
+ 4	121.4	39.6	60.8	2.7	246.1	22.15	127.913	6.742	41.848
20	105.4	32.9	57.6	1.3	245.7	22.16	127.915	6.742	41.847
Febr. 5	89.4	26.3	54.5	0.0	245.3	22.16	127.916	6.742	41.846
21	73.4	19.6	51.3	358.6	244.9	22.17	127.918	6.742	41.844
März 9	57.4	12.9	48.1	357.3	244.4	22.18	127.920	6.741	41.843
25	41.4	6.2	45.0	355.9	244.0	22.18	127.922	6.741	41.842
April 10	25.3	359.5	41.8	354.5	243.6	22.19	127.924	6.741	41.840
26	9.3	352.8	38.6	353.2	243.2	22.20	127.926	6.741	41.839
Mai 12	353.3	346.1	35.5	351.8	242.8	22.20	127.927	6.741	41.838
28	337.3	339.4	32.3	350.5	242.4	22.21	127.929	6.741	41.837
Juni 13	321.3	332.7	29.1	349.1	242.0	22.22	127.931	6.740	41.835
29	305.3	326.0	26.0	347.7	241.6	22.22	127.933	6.740	41.834
Juli 15	289.3	319.3	22.8	346.4	241.2	22.23	127.935	6.740	41.833
31	273.3	312.6	19.6	345.0	240.8	22.23	127.937	6.740	41.832
Aug. 16	257.3	306.0	16.5	343.7	240.4	22.24	127.938	6.740	41.830
Sept. 1	241.3	299.3	13.3	342.3	240.0	22.24	127.940	6.739	41.829
17	225.3	292.6	10.1	340.9	239.6	22.25	127.942	6.739	41.828
Okt. 3	209.3	285.9	7.0	339.6	239.1	22.25	127.944	6.739	41.826
19	193.3	279.2	3.8	338.2	238.7	22.26	127.946	6.739	41.825
Nov. 4	177.3	272.5	0.6	336.9	238.3	22.26	127.948	6.739	41.824
20	161.3	265.8	357.5	335.5	237.9	22.27	127.949	6.738	41.823
Dez. 6	145.3	259.1	354.3	334.1	237.5	22.27	127.951	6.738	41.821
22	129.3	252.4	351.1	332.8	237.1	22.28	127.953	6.738	41.820
38	113.3	245.7	348.0	331.4	236.7	22.28	127.955	6.738	41.819

$\log \frac{1}{1+\zeta}$, in Einheiten der 5. Dezimale

u − U		Mimas	Encel.	Tethys	Dione	Rhea	u − U	
0°	360°	−6+	−7+	−9+	−11+	−16+	180°	180°
10	350	−6+	−7+	−9+	−11+	−16+	170	190
20	340	−5+	−7+	−8+	−11+	−15+	160	200
30	330	−5+	−6+	−8+	−10+	−14+	150	210
40	320	−4+	−6+	−7+	− 9+	−12+	140	220
50	310	−3+	−5+	−6+	− 8+	−10+	130	230
60	300	−3+	−4+	−4+	− 6+	− 8+	120	240
70	290	−2+	−3+	−3+	− 4+	− 6+	110	250
80	280	−1+	−1+	−2+	− 2+	− 3+	100	260
90	270	0	0	0	0	0	90	270

Saturnstrabanten 1938

0h Welt-Zeit		TITAN U	TITAN B	TITAN P	HYPERION U	HYPERION B	HYPERION P	JAPETUS U	JAPETUS B	JAPETUS P
1938		°	°	°	°	°	°	°	°	°
Jan.	−4	235.735	− 2.942	+3.765	230.642	− 2.633	+4.279	309.650	− 8.564	− 9.143
	+4	236.085	3.154	3.730	230.992	2.848	4.247	310.043	8.692	9.218
	12	236.525	3.410	3.687	231.432	3.109	4.206	310.535	8.843	9.311
	20	237.049	3.706	3.635	231.955	3.410	4.157	311.119	9.013	9.421
	28	237.649	4.037	3.576	232.554	3.747	4.101	311.786	9.200	9.546
Febr.	5	238.317	− 4.399	+3.509	233.221	− 4.115	+4.038	312.528	− 9.401	− 9.684
	13	239.045	4.786	3.436	233.948	4.509	3.969	313.335	9.612	9.832
	21	239.825	5.194	3.357	234.726	4.925	3.894	314.197	9.830	9.988
März	1	240.648	5.618	3.274	235.546	5.357	3.815	315.106	10.053	10.151
	9	241.504	6.053	3.187	236.400	5.800	3.732	316.051	10.278	10.318
	17	242.386	− 6.494	+3.096	237.279	− 6.250	+3.645	317.023	−10.501	−10.488
	25	243.284	6.936	3.003	238.174	6.702	3.556	318.012	10.720	10.658
April	2	244.190	7.376	2.908	239.078	7.150	3.466	319.008	10.934	10.827
	10	245.096	7.808	2.813	239.982	7.591	3.375	320.002	11.140	10.993
	18	245.993	8.229	2.718	240.877	8.021	3.284	320.984	11.337	11.154
	26	246.873	− 8.634	+2.625	241.754	− 8.436	+3.194	321.946	−11.521	−11.309
Mai	4	247.727	9.021	2.534	242.606	8.831	3.107	322.879	11.692	11.457
	12	248.548	9.385	2.446	243.424	9.203	3.022	323.772	11.849	11.596
	20	249.327	9.723	2.362	244.201	9.549	2.940	324.617	11.990	11.726
	28	250.055	10.031	2.283	244.928	9.865	2.864	325.406	12.114	11.845
Juni	5	250.724	−10.307	+2.210	245.597	−10.148	+2.793	326.129	−12.221	−11.952
	13	251.327	10.548	2.144	246.199	10.396	2.729	326.778	12.309	12.047
	21	251.856	10.751	2.086	246.728	10.605	2.673	327.346	12.379	12.129
	29	252.303	10.914	2.036	247.175	10.773	2.625	327.824	12.429	12.197
Juli	7	252.662	11.035	1.996	247.535	10.898	2.586	328.205	12.460	12.250
	15	252.928	−11.113	+1.967	247.802	−10.979	+2.557	328.484	−12.471	−12.289
	23	253.096	11.147	1.948	247.971	11.014	2.539	328.656	12.463	12.313
	31	253.162	11.135	1.941	248.040	11.003	2.531	328.718	12.435	12.321
Aug.	8	253.126	11.079	1.945	248.007	10.947	2.535	328.669	12.389	12.314
	16	252.989	10.980	1.960	247.873	10.847	2.549	328.511	12.326	12.291
	24	252.755	−10.840	+1.986	247.643	−10.705	+2.574	328.248	−12.247	−12.253
Sept.	1	252.430	10.663	2.022	247.323	10.525	2.609	327.888	12.154	12.202
	9	252.025	10.453	2.066	246.922	10.312	2.652	327.441	12.049	12.138
	17	251.552	10.217	2.118	246.454	10.072	2.702	326.921	11.934	12.063
	25	251.026	9.962	2.176	245.933	9.812	2.758	326.344	11.814	11.979
Okt.	3	250.464	− 9.697	+2.237	245.377	− 9.541	+2.817	325.731	−11.691	−11.889
	11	249.887	9.430	2.300	244.806	9.268	2.878	325.102	11.570	11.795
	19	249.315	9.170	2.362	244.239	9.003	2.938	324.479	11.455	11.701
	27	248.767	8.927	2.421	243.696	8.755	2.995	323.884	11.351	11.611
Nov.	4	248.263	8.709	2.476	243.197	8.533	3.047	323.338	11.261	11.527
	12	247.820	− 8.525	+2.524	242.758	− 8.345	+3.093	322.860	−11.188	−11.453
	20	247.453	8.381	2.563	242.395	8.198	3.131	322.466	11.136	11.391
	28	247.174	8.282	2.593	242.120	8.097	3.160	322.169	11.106	11.344
Dez.	6	246.993	8.232	2.612	241.941	8.045	3.178	321.979	11.101	11.315
	14	246.914	8.233	2.621	241.864	8.045	3.186	321.903	11.120	11.303
	22	246.941	8.285	2.618	241.893	8.098	3.184	321.943	11.164	11.309
	30	247.075	− 8.388	+2.604	242.028	− 8.203	+3.170	322.100	−11.232	−11.335

0^h Welt-Zeit 1938	HYPERION $\alpha_{tr}-\alpha_{pl}$ (s)	Diff. (s)	HYPERION $\delta_{tr}-\delta_{pl}$ (″)	Diff. (″)
Jan. 0	−15.1	+2.8	+16	− 8
2	−12.3	+6.5	+ 8	−11
4	− 5.8	+8.4	− 3	−10
6	+ 2.6	+7.2	−13	− 4
8	+ 9.8	+3.0	−17	+ 3
10	+12.8	−2.5	−14	+ 9
12	+10.3	−6.5	− 5	+12
14	+ 3.8	−7.8	+ 7	+ 9
16	− 4.0	−6.7	+16	+ 4
18	−10.7	−3.6	+20	− 1
20	−14.3	+0.3	+19	− 7
22	−14.0	+4.2	+12	−11
24	− 9.8	+7.2	+ 1	−11
26	− 2.6		−10	
Juni 13	+ 0.9	−7.5	+39	+ 2
15	− 6.6	−5.8	+41	− 9
17	−12.4	−2.4	+32	−17
19	−14.8	+1.7	+15	−22
21	−13.1	+5.8	− 7	−20
23	− 7.3	+8.5	−27	−10
25	+ 1.2	+8.0	−37	+ 5
27	+ 9.2	+4.0	−32	+20
29	+13.2	−1.4	−12	+25
Juli 1	+11.8	−5.8	+13	+21
3	+ 6.0	−7.8	+34	+10
5	− 1.8	−7.3	+44	− 2
7	− 9.1	−5.0	+42	−13
9	−14.1	−1.2	+29	−22
11	−15.3	+3.3	+ 7	−24
13	−12.0	+7.3	−17	−18
15	− 4.7	+9.2	−35	− 4
17	+ 4.5	+7.2	−39	+12
19	+11.7	+2.2	−27	+24
21	+13.9	−3.4	− 3	+26
23	+10.5	−7.0	+23	+18
25	+ 3.5	−8.2	+41	+ 6
27	− 4.7	−7.0	+47	− 7
29	−11.7		+40	

0^h Welt-Zeit 1938	HYPERION $\alpha_{tr}-\alpha_{pl}$ (s)	Diff. (s)	HYPERION $\delta_{tr}-\delta_{pl}$ (″)	Diff. (″)
Juli 29	−11.7	− 3.9	+40	−17
31	−15.6	+ 0.4	+23	−24
Aug. 2	−15.2	+ 5.1	− 1	−24
4	−10.1	+ 8.6	−25	−14
6	− 1.5	+ 9.2	−39	+ 1
8	+ 7.7	+ 5.9	−38	+18
10	+13.6	+ 0.1	−20	+27
12	+13.7	− 5.1	+ 7	+25
14	+ 8.6	− 8.0	+32	+14
16	+ 0.6	− 8.3	+46	+ 1
18	− 7.7	− 6.3	+47	−11
20	−14.0	− 2.5	+36	−21
22	−16.5	+ 2.1	+15	−25
24	−14.4	+ 6.8	−10	−22
26	− 7.6	+ 9.7	−32	− 9
28	+ 2.1	+ 8.7	−41	+ 8
30	+10.8	+ 4.0	−33	+22
Sept. 1	+14.8	− 2.1	−11	+27
3	+12.7	− 6.7	+16	+22
5	+ 6.0	− 8.6	+38	+10
7	− 2.6	− 8.0	+48	− 3
9	−10.6	− 5.2	+45	−15
11	−15.8	− 0.9	+30	−23
13	−16.7	+ 4.0	+ 7	−24
15	−12.7	+ 8.4	−17	−18
17	− 4.3	+10.1	−35	− 4
19	+ 5.8	+ 7.4	−39	+13
21	+13.2	+ 1.8	−26	+24
23	+15.0	− 4.2	− 2	+26
25	+10.8	− 7.9	+24	+17
27	+ 2.9	− 8.8	+41	+ 5
29	− 5.9	− 7.3	+46	− 7
Okt. 1	−13.2	− 3.7	+39	−17
3	−16.9	+ 0.9	+22	−23
5	−16.0	+ 5.9	− 1	−22
7	−10.1	+ 9.5	−23	−13
9	− 0.6	+ 9.7	−36	+ 2
11	+ 9.1	+ 5.6	−34	+16
13	+14.7	− 0.6	−18	+24
15	+14.1		+ 6	

0^h Welt-Zeit 1938	HYPERION $\alpha_{tr}-\alpha_{pl}$ (s)	Diff. (s)	HYPERION $\delta_{tr}-\delta_{pl}$ (″)	Diff. (″)
Okt. 15	+14.1	− 5.9	+ 6	+22
17	+ 8.2	− 8.6	+28	+13
19	− 0.4	− 8.5	+41	+ 1
21	− 8.9	− 6.1	+42	− 9
23	−15.0	− 2.1	+33	−18
25	−17.1	+ 2.8	+15	−22
27	−14.3	+ 7.4	− 7	−19
29	− 6.9	+10.0	−26	− 9
31	+ 3.1	+ 8.5	−35	+ 6
Nov. 2	+11.6	+ 3.4	−29	+19
4	+15.0	− 2.7	−10	+23
6	+12.3	− 7.1	+13	+18
8	+ 5.2	− 8.7	+31	+ 9
10	− 3.5	− 7.7	+40	− 2
12	−11.2	− 4.8	+38	−12
14	−16.0	− 0.4	+26	−18
16	−16.4	+ 4.4	+ 8	−20
18	−12.0	+ 8.5	−12	−16
20	− 3.5	+ 9.7	−28	− 4
22	+ 6.2	+ 6.9	−32	+ 9
24	+13.1	+ 1.2	−23	+20
26	+14.3	− 4.4	− 3	+21
28	+ 9.9	− 7.7	+18	+15
30	+ 2.2	− 8.3	+33	+ 5
Dez. 2	− 6.1	− 6.7	+38	− 5
4	−12.8	− 3.3	+33	−13
6	−16.1	+ 1.1	+20	−18
8	−15.0	+ 5.7	+ 2	−19
10	− 9.3	+ 9.0	−17	−12
12	− 0.3	+ 9.0	−29	0
14	+ 8.7	+ 5.0	−29	+13
16	+13.7	− 0.7	−16	+20
18	+13.0	− 5.5	+ 4	+18
20	+ 7.5	− 7.9	+22	+12
22	− 0.4	− 7.7	+34	+ 3
24	− 8.1	− 5.6	+37	− 7
26	−13.7	− 2.0	+30	−15
28	−15.7	+ 2.5	+15	−19
30	−13.2	+ 6.7	− 4	−17
32	− 6.5		−21	

Saturnstrabanten 1938

0ʰ Welt-Zeit	JAPETUS				0ʰ Welt-Zeit	JAPETUS				0ʰ Welt-Zeit	JAPETUS			
	$\alpha_{tr}-\alpha_{pl}$		$\delta_{tr}-\delta_{pl}$			$\alpha_{tr}-\alpha_{pl}$		$\delta_{tr}-\delta_{pl}$			$\alpha_{tr}-\alpha_{pl}$		$\delta_{tr}-\delta_{pl}$	
1938	s	s	"	"	1938	s	s	"	"	1938	s	s	"	"
Jan. 0	+26.5	+2.8	+ 17	+17	Juli 29	−35.0	−0.2	− 95	−19	Okt. 15	−37.6	−0.3	− 93	−20
2	+29.3	+2.1	+ 34	+17	31	−35.2	+0.8	−114	−17	17	−37.9	+0.7	−113	−17
4	+31.4	+1.3	+ 51	+15	Aug. 2	−34.4	+1.6	−131	−13	19	−37.2	+1.7	−130	−13
6	+32.7	+0.4	+ 66	+13	4	−32.8	+2.5	−144	− 9	21	−35.5	+2.6	−143	− 9
8	+33.1	−0.4	+ 79	+11	6	−30.3	+3.4	−153	− 6	23	−32.9	+3.5	−152	− 5
10	+32.7	−1.1	+ 90	+10	8	−26.9	+4.1	−159	− 1	25	−29.4	+4.4	−157	0
12	+31.6	−1.9	+100	+ 7	10	−22.8	+4.7	−160	+ 3	27	−25.0	+5.0	−157	+ 4
14	+29.7	−2.6	+107	+ 4	12	−18.1	+5.3	−157	+ 7	29	−20.0	+5.6	−153	+ 8
16	+27.1	−3.2	+111	+ 2	14	−12.8	+5.6	−150	+12	31	−14.4	+6.0	−145	+12
18	+23.9	−3.7	+113	0	16	− 7.2	+5.9	−138	+16	Nov. 2	− 8.4	+6.1	−133	+15
20	+20.2	−4.1	+113	− 3	18	− 1.3	+6.0	−122	+19	4	− 2.3	+6.2	−118	+19
22	+16.1	−4.5	+110	− 6	20	+ 4.7	+5.9	−103	+22	6	+ 3.9	+6.0	− 99	+21
24	+11.6	−4.8	+104	− 8	22	+10.6	+5.6	− 81	+25	8	+ 9.9	+5.7	− 78	+23
26	+ 6.8		+ 96		24	+16.2	+5.2	− 56	+26	10	+15.6	+5.3	− 55	+25
					26	+21.4	+4.7	− 30	+27	12	+20.9	+4.7	− 30	+26
	s	s	"	"	28	+26.1	+4.0	− 3	+27	14	+25.6	+4.0	− 4	+25
Juni 13	+28.7	+2.2	+ 38	+22	30	+30.1	+3.2	+ 24	+27	16	+29.6	+3.2	+ 21	+25
15	+30.9	+1.5	+ 60	+21	Sept. 1	+33.3	+2.4	+ 51	+26	18	+32.8	+2.3	+ 46	+23
17	+32.4	+0.7	+ 81	+19	3	+35.7	+1.5	+ 77	+23	20	+35.1	+1.4	+ 69	+21
19	+33.1	0.0	+100	+17	5	+37.2	+0.5	+100	+21	22	+36.5	+0.4	+ 90	+19
21	+33.1	−0.9	+117	+14	7	+37.7	−0.4	+121	+18	24	+36.9	−0.5	+109	+16
23	+32.2	−1.6	+131	+12	9	+37.3	−1.4	+139	+14	26	+36.4	−1.4	+125	+13
25	+30.6	−2.4	+143	+ 8	11	+35.9	−2.3	+153	+11	28	+35.0	−2.2	+138	+ 9
27	+28.2	−3.0	+151	+ 5	13	+33.6	−3.1	+164	+ 7	30	+32.8	−3.0	+147	+ 6
29	+25.2	−3.6	+156	+ 1	15	+30.5	−3.9	+171	+ 2	Dez. 2	+29.8	−3.7	+153	+ 2
Juli 1	+21.6	−4.2	+157	− 2	17	+26.6	−4.5	+173	− 2	4	+26.1	−4.3	+155	− 2
3	+17.4	−4.6	+155	− 6	19	+22.1	−5.1	+171	− 6	6	+21.8	−4.8	+153	− 5
5	+12.8	−4.9	+149	−10	21	+17.0	−5.5	+165	−10	8	+17.0	−5.2	+148	− 9
7	+ 7.9	−5.1	+139	−13	23	+11.5	−5.8	+155	−14	10	+11.8	−5.4	+139	−12
9	+ 2.8	−5.3	+126	−15	25	+ 5.7	−5.9	+141	−17	12	+ 6.4	−5.6	+127	−14
11	− 2.5	−5.2	+111	−18	27	− 0.2	−6.0	+124	−20	14	+ 0.8	−5.5	+113	−17
13	− 7.7	−5.1	+ 93	−21	29	− 6.2	−5.9	+104	−22	16	− 4.7	−5.3	+ 96	−19
15	−12.8	−4.8	+ 72	−23	Okt. 1	−12.1	−5.5	+ 82	−24	18	−10.0	−5.0	+ 77	−21
17	−17.6	−4.5	+ 49	−24	3	−17.6	−5.1	+ 58	−26	20	−15.0	−4.7	+ 56	−22
19	−22.1	−4.0	+ 25	−25	5	−22.7	−4.5	+ 32	−26	22	−19.7	−4.2	+ 34	−22
21	−26.1	−3.3	0	−25	7	−27.2	−3.8	+ 6	−26	24	−23.9	−3.5	+ 12	−23
23	−29.4	−2.7	− 25	−24	9	−31.0	−3.1	− 20	−26	26	−27.4	−2.9	− 11	−22
25	−32.1	−1.9	− 49	−24	11	−34.1	−2.2	− 46	−24	28	−30.3	−2.1	− 33	−21
27	−34.0	−1.0	− 73	−22	13	−36.3	−1.3	− 70	−23	30	−32.4	−1.4	− 54	−20
29	−35.0		− 95		15	−37.6		− 93		32	−33.8		− 74	

Östliche Elongationen (in Welt-Zeit)

MIMAS

		h			h			h			h			h
Jan.	0	14.1	Juni	28	16.7	Aug.	11	1.1	Sept.	23	9.4	Nov.	5	17.7
	1	12.7		29	15.3		11	23.7		24	8.0		6	16.3
	2	11.4		30	13.9		12	22.4		25	6.6		7	14.9
	3	10.0	Juli	1	12.5		13	21.0		26	5.3		8	13.5
	4	8.6		2	11.2		14	19.6		27	3.9		9	12.2
	5	7.2		3	9.8		15	18.2		28	2.5		10	10.8
	6	5.8		4	8.4		16	16.8		29	1.1		11	9.4
	7	4.5		5	7.0		17	15.4		29	23.7		12	8.0
	8	3.1		6	5.7		18	14.0		30	22.4		13	6.7
	9	1.7		7	4.3		19	12.6	Okt.	1	21.0		14	5.3
	10	0.3		8	2.9		20	11.2		2	19.6		15	3.9
	10	23.0		9	1.5		21	9.9		3	18.2		16	2.5
	11	21.6		10	0.2		22	8.5		4	16.8		17	1.1
	12	20.2		10	22.8		23	7.1		5	15.4		17	23.8
	13	18.8		11	21.4		24	5.7		6	14.0		18	22.4
	14	17.5		12	20.0		25	4.4		7	12.6		19	21.0
	15	16.1		13	18.7		26	3.0		8	11.3		20	19.6
	16	14.7		14	17.3		27	1.6		9	9.9		21	18.2
	17	13.3		15	15.9		28	0.2		10	8.5		22	16.8
	18	12.0		16	14.5		28	22.8		11	7.1		23	15.4
	19	10.6		17	13.1		29	21.5		12	5.7		24	14.0
	20	9.2		18	11.7		30	20.1		13	4.3		25	12.7
	21	7.8		19	10.3		31	18.7		14	2.9		26	11.3
	22	6.5		20	9.0	Sept.	1	17.3		15	1.5		27	9.9
	23	5.1		21	7.6		2	15.9		16	0.2		28	8.5
	24	3.7		22	6.2		3	14.5		16	22.8		29	7.2
	25	2.3		23	4.8		4	13.1		17	21.4		30	5.8
				24	3.5		5	11.7		18	20.0	Dez.	1	4.4
				25	2.1		6	10.4		19	18.6		2	3.0
				26	0.7		7	9.0		20	17.2		3	1.6
Juni	13	14.8		26	23.3		8	7.6		21	15.8		4	0.3
	14	13.4		27	21.9		9	6.2		22	14.4		4	22.9
	15	12.0		28	20.6		10	4.8		23	13.0		5	21.5
	16	10.6		29	19.2		11	3.4		24	11.7		6	20.1
	17	9.2		30	17.8		12	2.0		25	10.3		7	18.7
	18	7.9		31	16.4		13	0.6		26	8.9		8	17.3
	19	6.5	Aug.	1	15.0		13	23.3		27	7.5		9	16.0
	20	5.1		2	13.6		14	21.9		28	6.2		10	14.6
	21	3.7		3	12.2		15	20.5		29	4.8		11	13.2
	22	2.4		4	10.8		16	19.1		30	3.4		12	11.8
	23	1.0		5	9.5		17	17.7		31	2.0		13	10.5
	23	23.6		6	8.1		18	16.3	Nov.	1	0.6		14	9.1
	24	22.2		7	6.7		19	14.9		1	23.3		15	7.7
	25	20.8		8	5.3		20	13.5		2	21.9		16	6.3
	26	19.5		9	3.9		21	12.1		3	20.5		17	5.0
	27	18.1		10	2.5		22	10.8		4	19.1		18	3.6
	28	16.7		11	1.1		23	9.4		5	17.7		19	2.2

Östliche Elongationen (in Welt-Zeit)

MIMAS

		h
Dez.	19	2.2
	20	0.8
	20	23.5
	21	22.1
	22	20.7
	23	19.3
	24	17.9
	25	16.5
	26	15.1
	27	13.8
	28	12.4
	29	11.0
	30	9.6
	31	8.3
	32	6.9

ENCELADUS

		h
Jan.	0	2.8
	1	11.7
	2	20.6
	4	5.5
	5	14.4
	6	23.3
	8	8.2
	9	17.1
	11	2.0
	12	10.9
	13	19.7
	15	4.6
	16	13.5
	17	22.4
	19	7.3
	20	16.2
	22	1.1
	23	10.0
	24	18.9

		h
Juni	13	14.5
	14	23.4
	16	8.3
	17	17.2
	19	2.0
	20	10.9
	21	19.8

ENCELADUS

		h
Juni	21	19.8
	23	4.7
	24	13.6
	25	22.5
	27	7.3
	28	16.2
	30	1.1
Juli	1	10.0
	2	18.9
	4	3.8
	5	12.7
	6	21.6
	8	6.4
	9	15.3
	11	0.2
	12	9.1
	13	18.0
	15	2.9
	16	11.8
	17	20.7
	19	5.6
	20	14.4
	21	23.3
	23	8.2
	24	17.1
	26	2.0
	27	10.9
	28	19.7
	30	4.6
	31	13.5
Aug.	1	22.4
	3	7.3
	4	16.2
	6	1.0
	7	9.9
	8	18.8
	10	3.7
	11	12.6
	12	21.5
	14	6.3
	15	15.2
	17	0.1
	18	9.0
	19	17.8
	21	2.7
	22	11.6
	23	20.5

ENCELADUS

		h
Aug.	23	20.5
	25	5.3
	26	14.2
	27	23.1
	29	8.0
	30	16.8
Sept.	1	1.7
	2	10.6
	3	19.4
	5	4.3
	6	13.2
	7	22.1
	9	6.9
	10	15.8
	12	0.7
	13	9.6
	14	18.4
	16	3.3
	17	12.2
	18	21.1
	20	6.0
	21	14.9
	22	23.7
	24	8.6
	25	17.5
	27	2.4
	28	11.3
	29	20.2
Okt.	1	5.0
	2	13.9
	3	22.8
	5	7.7
	6	16.5
	8	1.4
	9	10.3
	10	19.2
	12	4.0
	13	12.9
	14	21.8
	16	6.7
	17	15.5
	19	0.4
	20	9.3
	21	18.2
	23	3.0
	24	11.9
	25	20.8

ENCELADUS

		h
Okt.	25	20.8
	27	5.7
	28	14.5
	29	23.4
	31	8.3
Nov.	1	17.2
	3	2.0
	4	10.9
	5	19.8
	7	4.7
	8	13.6
	9	22.4
	11	7.3
	12	16.2
	14	1.1
	15	10.0
	16	18.9
	18	3.7
	19	12.6
	20	21.5
	22	6.4
	23	15.3
	25	0.2
	26	9.0
	27	17.9
	29	2.8
	30	11.7
Dez.	1	20.6
	3	5.5
	4	14.3
	5	23.2
	7	8.1
	8	17.0
	10	1.9
	11	10.8
	12	19.7
	14	4.6
	15	13.4
	16	22.3
	18	7.2
	19	16.1
	21	1.0
	22	9.9
	23	18.8
	25	3.7
	26	12.6
	27	21.4

ENCELADUS

		h
Dez.	27	21.4
	29	6.3
	30	15.2
	32	0.1

TETHYS

		h
Jan.	1	4.0
	3	1.4
	4	22.7
	6	20.0
	8	17.3
	10	14.7
	12	12.0
	14	9.3
	16	6.6
	18	4.0
	20	1.3
	21	22.6
	23	19.9
	25	17.3

		h
Juni	14	11.7
	16	9.0
	18	6.3
	20	3.6
	22	0.9
	23	22.3
	25	19.6
	27	16.9
	29	14.2
Juli	1	11.5
	3	8.8
	5	6.1
	7	3.4
	9	0.8
	10	22.1
	12	19.4
	14	16.7
	16	14.0
	18	11.3
	20	8.6
	22	5.9
	24	3.2
	26	0.6

Östliche Elongationen (in Welt-Zeit)

TETHYS

		h
Juli	26	0.6
	27	21.9
	29	19.2
	31	16.5
Aug.	2	13.8
	4	11.1
	6	8.4
	8	5.7
	10	3.0
	12	0.3
	13	21.6
	15	18.9
	17	16.2
	19	13.5
	21	10.8
	23	8.1
	25	5.4
	27	2.7
	29	0.0
	30	21.3
Sept.	1	18.6
	3	15.9
	5	13.2
	7	10.5
	9	7.8
	11	5.0
	13	2.3
	14	23.6
	16	20.9
	18	18.2
	20	15.5
	22	12.8
	24	10.1
	26	7.4
	28	4.6
	30	1.9
Okt.	1	23.2
	3	20.5
	5	17.8
	7	15.1
	9	12.4
	11	9.7
	13	6.9
	15	4.2
	17	1.5
	18	22.8
	20	20.1

TETHYS

		h
Okt.	20	20.1
	22	17.4
	24	14.7
	26	12.0
	28	9.3
	30	6.6
Nov.	1	3.9
	3	1.2
	4	22.5
	6	19.8
	8	17.1
	10	14.4
	12	11.7
	14	9.0
	16	6.3
	18	3.6
	20	0.9
	21	22.2
	23	19.5
	25	16.8
	27	14.1
	29	11.4
Dez.	1	8.7
	3	6.0
	5	3.3
	7	0.6
	8	21.9
	10	19.2
	12	16.5
	14	13.8
	16	11.2
	18	8.5
	20	5.8
	22	3.1
	24	0.4
	25	21.7
	27	19.0
	29	16.3
	31	13.6
	33	11.0

DIONE

		h
Jan.	2	9.8
	5	3.5
	7	21.2
	10	14.9

DIONE

		h
Jan.	10	14.9
	13	8.6
	16	2.4
	18	20.1
	21	13.8
	24	7.5
Juni	13	0.0
	15	17.7
	18	11.4
	21	5.1
	23	22.9
	26	16.6
	29	10.3
Juli	2	4.0
	4	21.7
	7	15.4
	10	9.1
	13	2.8
	15	20.5
	18	14.2
	21	7.9
	24	1.6
	26	19.2
	29	12.9
Aug.	1	6.6
	4	0.3
	6	18.0
	9	11.7
	12	5.3
	14	23.0
	17	16.7
	20	10.4
	23	4.1
	25	21.7
	28	15.4
	31	9.0
Sept.	3	2.7
	5	20.3
	8	14.0
	11	7.6
	14	1.3
	16	18.9
	19	12.6
	22	6.2
	24	23.9

DIONE

		h
Sept.	24	23.9
	27	17.5
	30	11.2
Okt.	3	4.8
	5	22.4
	8	16.1
	11	9.7
	14	3.4
	16	21.0
	19	14.7
	22	8.4
	25	2.1
	27	19.7
	30	13.4
Nov.	2	7.0
	5	0.7
	7	18.4
	10	12.1
	13	5.7
	15	23.4
	18	17.0
	21	10.7
	24	4.4
	26	22.1
	29	15.7
Dez.	2	9.4
	5	3.0
	7	20.7
	10	14.4
	13	8.1
	16	1.8
	18	19.4
	21	13.1
	24	6.8
	27	0.5
	29	18.2
	32	12.0

RHEA

		h
Jan.	3	16.3
	8	4.8
	12	17.3
	17	5.8
	21	18.3
	26	6.8

RHEA

		h
Juni	15	12.1
	20	0.6
	24	13.1
	29	1.6
Juli	3	14.1
	8	2.5
	12	15.0
	17	3.4
	21	15.8
	26	4.3
	30	16.7
Aug.	4	5.1
	8	17.5
	13	5.9
	17	18.3
	22	6.7
	26	19.1
	31	7.4
Sept.	4	19.8
	9	8.1
	13	20.5
	18	8.8
	22	21.1
	27	9.5
Okt.	1	21.8
	6	10.1
	10	22.4
	15	10.7
	19	23.0
	24	11.4
	28	23.7
Nov.	2	12.1
	7	0.4
	11	12.7
	16	1.1
	20	13.4
	25	1.8
	29	14.2
Dez.	4	2.6
	8	15.0
	13	3.4
	17	15.9
	22	4.3
	26	16.7
	31	5.2

Elongationen und Konjunktionen (in Welt-Zeit)

TITAN

		h	
Jan.	1	20.3	Östl. El.
	6	1.1	Unt. Konj.
	9	23.8	Westl. El.
	13	19.0	Ob. Konj.
	17	20.1	Östl. El.
	22	1.0	Unt. Konj.
	25	23.7	Westl. El.
Juni	15	4.7	Unt. Konj.
	19	2.2	Westl. El.
	22	21.8	Ob. Konj.
	27	0.0	Östl. El.
Juli	1	4.3	Unt. Konj.
	5	1.7	Westl. El.
	8	21.2	Ob. Konj.
	12	23.4	Östl. El.
	17	3.6	Unt. Konj.
	21	0.9	Westl. El.
	24	20.3	Ob. Konj.
	28	22.4	Östl. El.
Aug.	2	2.5	Unt. Konj.
	5	23.6	Westl. El.
	9	18.9	Ob. Konj.
	13	21.0	Östl. El.
	18	0.9	Unt. Konj.
	21	21.9	Westl. El.
	25	17.1	Ob. Konj.
	29	19.1	Östl. El.
Sept.	2	22.9	Unt. Konj.
	6	19.9	Westl. El.
	10	15.0	Ob. Konj.
	14	16.8	Östl. El.
	18	20.6	Unt. Konj.
	22	17.6	Westl. El.
	26	12.7	Ob. Konj.
	30	14.3	Östl. El.
Okt.	4	18.1	Unt. Konj.
	8	15.2	Westl. El.
	12	10.2	Ob. Konj.
	16	11.7	Östl. El.
	20	15.5	Unt. Konj.
Okt.	24	12.7	Westl. El.
	28	7.7	Ob. Konj.
Nov.	1	9.2	Östl. El.
	5	13.1	Unt. Konj.
	9	10.4	Westl. El.
	13	5.5	Ob. Konj.
	17	6.9	Östl. El.
	21	11.0	Unt. Konj.
	25	8.5	Westl. El.
	29	3.5	Ob. Konj.
Dez.	3	5.0	Östl. El.
	7	9.2	Unt. Konj.
	11	6.9	Westl. El.
	15	2.0	Ob. Konj.
	19	3.6	Östl. El.
	23	7.9	Unt. Konj.
	27	5.7	Westl. El.
	31	0.9	Ob. Konj.

HYPERION

		h	
Jan.	5	10.5	Ob. Konj.
	10	1.6	Östl. El.
	15	0.2	Unt. Konj.
	21	1.4	Westl. El.
	26	16.3	Ob. Konj.
Juni	13	5.9	Unt. Konj.
	19	10.9	Westl. El.
	24	18.2	Ob. Konj.
	29	6.7	Östl. El.
Juli	4	13.7	Unt. Konj.
	10	19.0	Westl. El.
	16	1.3	Ob. Konj.
	20	13.5	Östl. El.
	25	21.0	Unt. Konj.
Aug.	1	2.5	Westl. El.
	6	8.1	Ob. Konj.
	10	20.0	Östl. El.
	16	3.8	Unt. Konj.
Aug.	22	9.4	Westl. El.
	27	14.6	Ob. Konj.
Sept.	1	2.2	Östl. El.
	6	10.1	Unt. Konj.
	12	15.8	Westl. El.
	17	20.9	Ob. Konj.
	22	8.2	Östl. El.
	27	16.1	Unt. Konj.
Okt.	3	22.1	Westl. El.
	9	3.3	Ob. Konj.
	13	14.4	Östl. El.
	18	22.3	Unt. Konj.
	25	4.7	Westl. El.
	30	10.1	Ob. Konj.
Nov.	3	21.1	Östl. El.
	9	5.1	Unt. Konj.
	15	12.0	Westl. El.
	20	17.6	Ob. Konj.
	25	4.7	Östl. El.
	30	13.0	Unt. Konj.
Dez.	6	20.5	Westl. El.
	12	2.1	Ob. Konj.
	16	13.3	Östl. El.
	21	22.2	Unt. Konj.
	28	6.2	Westl. El.
	33	11.6	Ob. Konj.

JAPETUS

		h	
Jan.	8	8.4	Östl. El.
Juni	19	18.5	Östl. El.
Juli	10	17.3	Unt. Konj.
	31	3.1	West. El.
Aug.	19	0.6	Ob. Konj.
Sept.	7	3.6	Östl. El.
	27	12.8	Unt. Konj.
Okt.	17	13.4	Westl. El.
Nov.	5	6.6	Ob. Konj.
	24	7.5	Östl. El.
Dez.	14	21.0	Unt. Konj.

Welt-Zeit 1938		h	
Jan.	1	1	♀ ☌ ☾
	1	8	☿ ☌ ☾
	2	11	☿ ☌ ♀, ☿ 3° 16′ N.
	3	8	☉ in Erdnähe
	3	18	♃ ☌ ☾
	7	0	♂ ☌ ☾
	8	9	♄ ☌ ☾
	9	20	☿ stationär in AR.
	11	4	⛢ ☌ ☾
	18	9	⛢ stationär in AR.
	20	7	♆ ☌ ☾
	20	23	☿ gr. westl. El. 24° 17′
	29	13	☿ ☌ ☾
	29	23	♃ ☌ ☉
	31	1	♀ ☌ ♃, ♀ 0° 37′ S.
	31	14	♃ ☌ ☾
	31	15	♀ ☌ ☾
		h	
Febr.	1	15	♀ im Aphel
	2	20	♂ ☌ ♄, ♂ 2° 1′ N.
	4	3	♀ obere ☌ ☉
	4	18	♄ ☌ ☾
	4	21	♂ ☌ ☾
	7	11	⛢ ☌ ☾
	8	16	☿ im Aphel
	16	16	♆ ☌ ☾
	17	5	☿ ☌ ♃, ☿ 1° 23′ S.
	28	11	♃ ☌ ☾
		h	
März	2	0	☿ ☌ ☾
	3	0	♀ ☌ ☾
	4	6	♄ ☌ ☾
	5	15	♂ ☌ ☾
	6	17	⛢ ☌ ☾
	8	12	☿ obere ☌ ☉
	11	0	♆ ☍ ☉
	16	0	♆ ☌ ☾
	18	0	♀ ☌ ♄, ♀ 1° 4′ N.
	18	19	☿ ☌ ♄, ☿ 2° 7′ N.
	20	5	☿ ☌ ♀, ☿ 1° 17′ N.
	21	7	Frühlingsanfang
	24	15	☿ im Perihel
	28	7	♃ ☌ ☾
	28	22	♂ ☌ ⛢, ♂ 0° 44′ N.
	29	8	♄ ☌ ☉
	31	20	♄ ☌ ☾

Welt-Zeit 1938		h	
April	1	23	♀ ☌ ☾
	2	6	☿ ☌ ☾
	2	21	☿ gr. östl. El. 19° 5′
	3	2	⛢ ☌ ☾
	3	8	♂ ☌ ☾
	8	16	☿ ☌ ♀, ☿ 3° 52′ N.
	11	17	☿ stationär in AR.
	12	7	♆ ☌ ☾
	15	20	♀ ☌ ⛢, ♀ 0° 9′ N.
	21	22	☿ untere ☌ ☉
	25	2	♃ ☌ ☾
	28	11	♄ ☌ ☾
	29	10	☿ ☌ ☾
	30	13	⛢ ☌ ☾
		h	
Mai	1	19	♀ ☌ ☾
	2	1	♂ ☌ ☾
	4	6	☿ stationär in AR.
	4	20	⛢ ☌ ☉
	7	15	☿ im Aphel
	8	0	♀ ☌ ♂, ♀ 0° 2′ N.
	9	12	♆ ☌ ☾
	14	—	☾ totale Finsternis
	19	14	☿ gr. westl. El. 25° 37′
	22	17	♃ ☌ ☾
	25	0	♀ im Perihel
	26	2	♄ ☌ ☾
	27	23	☿ ☌ ☾
	28	2	⛢ ☌ ☾
	29	—	☉ totale Finsternis
	29	10	☿ ☌ ⛢, ☿ 2° 35′ S.
	30	18	♂ ☌ ☾
	30	20	♆ stationär in AR.
	31	16	♀ ☌ ☾
		h	
Juni	5	17	♆ ☌ ☾
	19	3	♃ ☌ ☾
	20	14	☿ im Perihel
	22	2	Sommersanfang
	22	5	♃ stationär in AR.
	22	15	♄ ☌ ☾
	22	21	☿ obere ☌ ☉
	24	14	⛢ ☌ ☾
	28	9	☿ ☌ ☾
	28	12	♂ ☌ ☾
	29	8	☿ ☌ ♂, ☿ 0° 45′ N.
	30	14	♀ ☌ ☾

Welt-Zeit 1938		h	
Juli	3	0	♆ ☌ ☾
	3	4	☉ in Erdferne
	16	7	♃ ☌ ☾
	20	0	♄ ☌ ☾
	22	1	♅ ☌ ☾
	24	19	♂ ☌ ☉
	27	5	♂ ☌ ☾
	29	5	☿ ☌ ☾
	30	9	♀ ☌ ☾
	30	10	♆ ☌ ☾
	31	7	♀ ☌ ♆, ♀ 0° 26′ S.
	31	17	☿ gr. östl. El. 27° 15′
Aug.	1	2	♄ stationär in AR.
	3	14	☿ im Aphel
	12	7	♃ ☌ ☾
	13	20	☿ stationär in AR.
	16	5	♄ ☌ ☾
	18	8	♅ ☌ ☾
	21	0	♃ ☍ ☉
	24	4	♅ stationär in AR.
	24	22	♂ ☌ ☾
	25	20	☿ ☌ ☾
	26	22	♆ ☌ ☾
	28	9	☿ untere ☌ ☉
	28	23	♀ ☌ ☾
Sept.	4	20	☿ ☌ ♂, ☿ 3° 32′ S.
	6	3	☿ stationär in AR.
	8	7	♃ ☌ ☾
	11	3	♀ gr. östl. El. 46° 19′
	12	8	♄ ☌ ☾
	13	21	☿ gr. westl. El. 17° 54′
	14	8	♀ im Aphel
	14	9	♆ ☌ ☉
	14	13	♅ ☌ ☾
	16	14	☿ im Perihel
	16	15	☿ ☌ ♂, ☿ 0° 10′ S.
	22	14	♂ ☌ ☾
	23	0	☿ ☌ ☾
	23	9	♆ ☌ ☾
	23	17	Herbstanfang
	26	5	☿ ☌ ♆, ☿ 0° 50′ N.
	27	9	♀ ☌ ☾
Okt.	5	11	♃ ☌ ☾
	8	13	♄ ☍ ☉
	9	2	♂ im Aphel
	9	12	♄ ☌ ☾
	10	11	☿ obere ☌ ☉
	11	18	♅ ☌ ☾
	12	9	♂ ☌ ♆, ♂ 0° 5′ N.
	16	5	♀ im größten Glanze
	19	11	♃ stationär in AR.
	20	19	♆ ☌ ☾
	21	4	♂ ☌ ☾
	24	3	☿ ☌ ☾
	26	0	♀ ☌ ☾
	30	13	☿ im Aphel
	30	21	♀ stationär in AR.
Nov.	1	19	♃ ☌ ☾
	5	18	♄ ☌ ☾
	7	—	☾ totale Finsternis
	8	0	♅ ☌ ☾
	8	19	☿ ☌ ♀, ☿ 3° 15′ N.
	8	21	♅ ☍ ☉
	17	3	♆ ☌ ☾
	18	18	♂ ☌ ☾
	20	6	♀ untere ☌ ☉
	21	—	☉ part. Finsternis
	21	17	♀ ☌ ☾
	23	21	☿ ☌ ☾
	25	11	☿ gr. östl. El. 21° 51′
	29	8	♃ ☌ ☾
Dez.	3	2	♄ ☌ ☾
	4	17	☿ stationär in AR.
	5	9	♅ ☌ ☾
	9	13	♀ stationär in AR.
	13	13	☿ im Perihel
	14	9	♆ ☌ ☾
	14	10	☿ untere ☌ ☉
	15	21	♄ stationär in AR.
	17	7	♂ ☌ ☾
	18	16	♀ ☌ ☾
	20	14	☿ ☌ ☾
	22	12	Wintersanfang
	24	12	☿ stationär in AR.
	26	7	♀ im größten Glanze
	26	16	♆ stationär in AR.
	27	0	♃ ☌ ☾
	30	10	♄ ☌ ☾

Präzession in Rektaszension (p_α) und Deklination (p_δ)

α \ δ	p_α +60°	+50°	+40°	+30°	+20°	+10°	0°	−10°	−20°	−30°	−40°	−50°	−60°	p_δ
h	s	s	s	s	s	s	s	s	s		s	s	s	″
0	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0
1	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	+19.4
2	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	+17.4
3	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	+14.2
4	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	+10.0
5	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	+ 5.2
6	5.39	4.67	4.19	3.84	3.56	3.31	3.07	2.84	2.59	2.30	1.95	1.48	0.76	0.0
7	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	− 5.2
8	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	−10.0
9	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	−14.2
10	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	−17.4
11	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	−19.4
12	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	−20.0
13	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	−19.4
14	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	−17.4
15	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	−14.2
16	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	−10.0
17	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	− 5.2
18	0.76	1.48	1.95	2.30	2.59	2.84	3.07	3.31	3.56	3.84	4.19	4.67	5.39	0.0
19	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	+ 5.2
20	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	+10.0
21	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	+14.2
22	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	+17.4
23	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	+19.4
24	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0

Präzessionswerte und Schiefe der Ekliptik

Zeit	m	n	ψ	log π	Π	ε
	s	″	″		° ′	° ′ ″
1900.0	3.07234	20.0468	50.2564	9.67309	173 57.06	23 27 8.26
1905.0	3.07243	20.0464	50.2575	9.67305	173 59.80	23 27 5.92
1910.0	3.07252	20.0460	50.2586	9.67302	174 2.53	23 27 3.57
1915.0	3.07262	20.0456	50.2597	9.67299	174 5.27	23 27 1.23
1920.0	3.07271	20.0451	50.2608	9.67296	174 8.01	23 26 58.89
1925.0	3.07280	20.0447	50.2620	9.67293	174 10.75	23 26 56.54
1930.0	3.07290	20.0443	50.2631	9.67290	174 13.49	23 26 54.20
1935.0	3.07299	20.0439	50.2642	9.67287	174 16.23	23 26 51.86
1940.0	3.07308	20.0434	50.2653	9.67284	174 18.97	23 26 49.52
1945.0	3.07317	20.0430	50.2664	9.67281	174 21.71	23 26 47.17
1950.0	3.07327	20.0426	50.2675	9.67278	174 24.45	23 26 44.83

Länge λ	Präzession in Länge p_λ — Breite β: 0°	+1°	+2°	+3°	+4°	+5°	+6°	+7°	+8°	+9°	Länge λ	Präz. in Br. p_β — Präzession p_β	
0°	50″.268	″.259	″.251	″.243	″.235	50″.227	″.218	″.210	″.202	″.193	0°	+0″.046	81
10	.268	.260	.252	.244	.236	.228	.220	.212	.204	.196	10	+0.127	76
20	.268	.260	.253	.245	.238	.230	.223	.215	.208	.200	20	+0.203	71
30	.268	.261	.254	.247	.241	.234	.227	.220	.214	.207	30	+0.274	62
40	50.268	.262	.256	.250	.244	50.239	.233	.227	.221	.215	40	+0.336	52
50	.268	.263	.258	.254	.249	.244	.240	.235	.230	.225	50	+0.388	41
60	.268	.264	.261	.257	.254	.250	.247	.244	.240	.237	60	+0.429	27
70	.268	.265	.263	.261	.259	.257	.255	.253	.251	.249	70	+0.456	13
80	50.268	.267	.266	.266	.265	50.264	.264	.263	.262	.262	80	+0.469	1
90	.268	.268	.269	.270	.271	.272	.272	.273	.274	.275	90	+0.468	15
100	.268	.270	.272	.274	.276	.279	.281	.283	.285	.288	100	+0.453	28
110	.268	.271	.275	.278	.282	.285	.289	.292	.296	.300	110	+0.425	42
120	50.268	.272	.277	.282	.287	50.291	.296	.301	.306	.311	120	+0.383	54
130	.268	.273	.279	.285	.291	.297	.303	.309	.315	.321	130	+0.329	63
140	.268	.274	.281	.288	.295	.301	.308	.315	.322	.329	140	+0.266	71
150	.268	.275	.282	.290	.297	.305	.313	.320	.328	.335	150	+0.195	78
160	50.268	.275	.283	.291	.299	50.307	.315	.323	.332	.340	160	+0.117	81
170	.268	.276	.284	.292	.300	.309	.317	.325	.333	.342	170	+0.036	82
180	.268	.276	.284	.292	.300	.308	.317	.325	.333	.342	180	−0.046	81
190	.268	.275	.283	.291	.299	.307	.315	.323	.331	.339	190	−0.127	76
200	50.268	.275	.282	.290	.297	50.305	.312	.320	.327	.335	200	−0.203	71
210	.268	.274	.281	.288	.294	.301	.308	.315	.321	.328	210	−0.274	62
220	.268	.273	.279	.285	.291	.296	.302	.308	.314	.320	220	−0.336	52
230	.268	.272	.277	.281	.286	.291	.295	.300	.305	.310	230	−0.388	41
240	50.268	.271	.274	.278	.281	50.285	.288	.291	.295	.298	240	−0.429	27
250	.268	.270	.272	.274	.276	.278	.280	.282	.284	.286	250	−0.456	13
260	.268	.268	.269	.269	.270	.271	.271	.272	.273	.273	260	−0.469	1
270	.268	.267	.266	.265	.264	.263	.263	.262	.261	.260	270	−0.468	15
280	50.268	.265	.263	.261	.259	50.256	.254	.252	.250	.247	280	−0.453	28
290	.268	.264	.260	.257	.253	.250	.246	.243	.239	.235	290	−0.425	42
300	.268	.263	.258	.253	.248	.244	.239	.234	.229	.224	300	−0.383	54
310	.268	.262	.256	.250	.244	.238	.232	.226	.220	.214	310	−0.329	63
320	50.268	.261	.254	.247	.240	50.234	.227	.220	.213	.206	320	−0.266	71
330	.268	.260	.253	.245	.238	.230	.222	.215	.207	.200	330	−0.195	78
340	.268	.260	.252	.244	.236	.228	.220	.212	.203	.195	340	−0.117	81
350	.268	.259	.251	.243	.235	.226	.218	.210	.202	.193	350	−0.036	82
360	50.268	.259	.251	.243	.235	50.227	.218	.210	.202	.193	360	+0.046	

Präzession in Länge p_λ											Präz. in Br. p_β	
Länge λ	Breite β 0°	−1°	−2°	−3°	−4°	−5°	−6°	−7°	−8°	−9°	Länge λ	Präzession p_β
0°	50.″268	.″276	.″284	.″292	.″300	50.″308	.″317	.″325	.″333	.″342	0°	+0.″046 81
10	.268	.275	.283	.291	.299	.307	.315	.323	.331	.339	10	+0.127 76
20	.268	.275	.282	.290	.297	.305	.312	.320	.327	.335	20	+0.203 71
30	.268	.274	.281	.288	.294	.301	.308	.315	.321	.328	30	+0.274 62
40	50.268	.273	.279	.285	.291	50.296	.302	.308	.314	.320	40	+0.336 52
50	.268	.272	.277	.281	.286	.291	.295	.300	.305	.310	50	+0.388 41
60	.268	.271	.274	.278	.281	.285	.288	.291	.295	.298	60	+0.429 27
70	.268	.270	.272	.274	.276	.278	.280	.282	.284	.286	70	+0.456 13
80	50.268	.268	.269	.269	.270	50.271	.271	.272	.273	.273	80	+0.469 1
90	.268	.267	.266	.265	.264	.263	.263	.262	.261	.260	90	+0.468 15
100	.268	.265	.263	.261	.259	.256	.254	.252	.250	.247	100	+0.453 28
110	.268	.264	.260	.257	.253	.250	.246	.243	.239	.235	110	+0.425 42
120	50.268	.263	.258	.253	.248	50.244	.239	.234	.229	.224	120	+0.383 54
130	.268	.262	.256	.250	.244	.238	.232	.226	.220	.214	130	+0.329 63
140	.268	.261	.254	.247	.240	.234	.227	.220	.216	.206	140	+0.266 71
150	.268	.260	.253	.245	.238	.230	.222	.215	.207	.200	150	+0.195 78
160	50.268	.260	.252	.244	.236	50.228	.220	.212	.203	.195	160	+0.117 81
170	.268	.259	.251	.243	.235	.226	.218	.210	.202	.193	170	+0.036 82
180	.268	.259	.251	.243	.235	.227	.218	.210	.202	.193	180	−0.046 81
190	.268	.260	.252	.244	.236	.228	.220	.212	.204	.196	190	−0.127 76
200	50.268	.260	.253	.245	.238	50.230	.223	.215	.208	.200	200	−0.203 71
210	.268	.261	.254	.247	.241	.234	.227	.220	.214	.207	210	−0.274 62
220	.268	.262	.256	.250	.244	.239	.233	.227	.221	.215	220	−0.336 52
230	.268	.263	.258	.254	.249	.244	.240	.235	.230	.225	230	−0.388 41
240	50.268	.264	.261	.257	.254	50.250	.247	.244	.240	.237	240	−0.429 27
250	.268	.265	.263	.261	.259	.257	.255	.253	.251	.249	250	−0.456 13
260	.268	.267	.266	.266	.265	.264	.264	.263	.262	.262	260	−0.469 1
270	.268	.268	.269	.270	.271	.272	.272	.273	.274	.275	270	−0.468 15
280	50.268	.270	.272	.274	.276	50.279	.281	.283	.285	.288	280	−0.453 28
290	.268	.271	.275	.278	.282	.285	.289	.292	.296	.300	290	−0.425 42
300	.268	.272	.277	.282	.287	.291	.296	.301	.306	.311	300	−0.383 54
310	.268	.273	.279	.285	.291	.297	.303	.309	.315	.321	310	−0.329 63
320	50.268	.274	.281	.288	.295	50.301	.308	.315	.322	.329	320	−0.266 71
330	.268	.275	.282	.290	.297	.305	.313	.320	.328	.335	330	−0.195 78
340	.268	.275	.283	.291	.299	.307	.315	.323	.332	.340	340	−0.117 81
350	.268	.276	.284	.292	.300	.309	.317	.325	.333	.342	350	−0.036 82
360	50.268	.276	.284	.292	.300	50.308	.317	.325	.333	.342	360	+0.046

Verwandlung von mittlerer Zeit in Sternzeit

Red.	0^m	1^m	2^m	3^m	Red.		Red.	
s	h m s	h m s	h m s	h m s	s	m s	s	m s
0	0 0 0	6 5 15	12 10 29	18 15 44	0.00	0 0	0.50	3 3
1	0 6 5	6 11 20	12 16 34	18 21 49	0.01	0 4	0.51	3 6
2	0 12 10	6 17 25	12 22 40	18 27 54	0.02	0 7	0.52	3 10
3	0 18 16	6 23 30	12 28 45	18 33 59	0.03	0 11	0.53	3 14
4	0 24 21	6 29 36	12 34 50	18 40 5	0.04	0 15	0.54	3 17
5	0 30 26	6 35 41	12 40 55	18 46 10	0.05	0 18	0.55	3 21
6	0 36 31	6 41 46	12 47 1	18 52 15	0.06	0 22	0.56	3 25
7	0 42 37	6 47 51	12 53 6	18 58 20	0.07	0 26	0.57	3 28
8	0 48 42	6 53 56	12 59 11	19 4 26	0.08	0 29	0.58	3 32
9	0 54 47	7 0 2	13 5 16	19 10 31	0.09	0 33	0.59	3 35
10	1 0 52	7 6 7	13 11 21	19 16 36	0.10	0 37	0.60	3 39
11	1 6 58	7 12 12	13 17 27	19 22 41	0.11	0 40	0.61	3 43
12	1 13 3	7 18 17	13 23 32	19 28 47	0.12	0 44	0.62	3 46
13	1 19 8	7 24 23	13 29 37	19 34 52	0.13	0 47	0.63	3 50
14	1 25 13	7 30 28	13 35 42	19 40 57	0.14	0 51	0.64	3 54
15	1 31 19	7 36 33	13 41 48	19 47 2	0.15	0 55	0.65	3 57
16	1 37 24	7 42 38	13 47 53	19 53 7	0.16	0 58	0.66	4 1
17	1 43 29	7 48 44	13 53 58	19 59 13	0.17	1 2	0.67	4 5
18	1 49 34	7 54 49	14 0 3	20 5 18	0.18	1 6	0.68	4 8
19	1 55 40	8 0 54	14 6 9	20 11 23	0.19	1 9	0.69	4 12
20	2 1 45	8 6 59	14 12 14	20 17 28	0.20	1 13	0.70	4 16
21	2 7 50	8 13 5	14 18 19	20 23 34	0.21	1 17	0.71	4 19
22	2 13 55	8 19 10	14 24 24	20 29 39	0.22	1 20	0.72	4 23
23	2 20 1	8 25 15	14 30 30	20 35 44	0.23	1 24	0.73	4 27
24	2 26 6	8 31 20	14 36 35	20 41 49	0.24	1 28	0.74	4 30
25	2 32 11	8 37 26	14 42 40	20 47 55	0.25	1 31	0.75	4 34
26	2 38 16	8 43 31	14 48 45	20 54 0	0.26	1 35	0.76	4 38
27	2 44 22	8 49 36	14 54 51	21 0 5	0.27	1 39	0.77	4 41
28	2 50 27	8 55 41	15 0 56	21 6 10	0.28	1 42	0.78	4 45
29	2 56 32	9 1 47	15 7 1	21 12 16	0.29	1 46	0.79	4 49
30	3 2 37	9 7 52	15 13 6	21 18 21	0.30	1 50	0.80	4 52
31	3 8 43	9 13 57	15 19 12	21 24 26	0.31	1 53	0.81	4 56
32	3 14 48	9 20 2	15 25 17	21 30 31	0.32	1 57	0.82	4 59
33	3 20 53	9 26 8	15 31 22	21 36 37	0.33	2 1	0.83	5 3
34	3 26 58	9 32 13	15 37 27	21 42 42	0.34	2 4	0.84	5 7
35	3 33 3	9 38 18	15 43 33	21 48 47	0.35	2 8	0.85	5 10
36	3 39 9	9 44 23	15 49 38	21 54 52	0.36	2 11	0.86	5 14
37	3 45 14	9 50 28	15 55 43	22 0 58	0.37	2 15	0.87	5 18
38	3 51 19	9 56 34	16 1 48	22 7 3	0.38	2 19	0.88	5 21
39	3 57 24	10 2 39	16 7 54	22 13 8	0.39	2 22	0.89	5 25
40	4 3 30	10 8 44	16 13 59	22 19 13	0.40	2 26	0.90	5 29
41	4 9 35	10 14 49	16 20 4	22 25 19	0.41	2 30	0.91	5 32
42	4 15 40	10 20 55	16 26 9	22 31 24	0.42	2 33	0.92	5 36
43	4 21 45	10 27 0	16 32 14	22 37 29	0.43	2 37	0.93	5 40
44	4 27 51	10 33 5	16 38 20	22 43 34	0.44	2 41	0.94	5 43
45	4 33 56	10 39 10	16 44 25	22 49 39	0.45	2 44	0.95	5 47
46	4 40 1	10 45 16	16 50 30	22 55 45	0.46	2 48	0.96	5 51
47	4 46 6	10 51 21	16 56 35	23 1 50	0.47	2 52	0.97	5 54
48	4 52 12	10 57 26	17 2 41	23 7 55	0.48	2 55	0.98	5 58
49	4 58 17	11 3 31	17 8 46	23 14 0	0.49	2 59	0.99	6 2
50	5 4 22	11 9 37	17 14 51	23 20 6	0.50	3 3	1.00	6 5
51	5 10 27	11 15 42	17 20 56	23 26 11				
52	5 16 33	11 21 47	17 27 2	23 32 16				
53	5 22 38	11 27 52	17 33 7	23 38 21				
54	5 28 43	11 33 58	17 39 12	23 44 27				
55	5 34 48	11 40 3	17 45 17	23 50 32				
56	5 40 54	11 46 8	17 51 23	23 56 37				
57	5 46 59	11 52 13	17 57 28	24 2 42				
58	5 53 4	11 58 19	18 3 33	24 8 48				
59	5 59 9	12 4 24	18 9 38	24 14 53				

Die Reduktion ist zur mittleren Zeit zu addieren.

Red.	0^m	1^m	2^m	3^m	Red.		Red.	
s	h m s	h m s	h m s	h m s	s	m s	s	m s
0	0 0 0	6 6 15	12 12 29	18 18 44	0.00	0 0	0.50	3 3
1	0 6 6	6 12 21	12 18 35	18 24 50	0.01	0 4	0.51	3 7
2	0 12 12	6 18 27	12 24 42	18 30 56	0.02	0 7	0.52	3 10
3	0 18 19	6 24 33	12 30 48	18 37 2	0.03	0 11	0.53	3 14
4	0 24 25	6 30 40	12 36 54	18 43 9	0.04	0 15	0.54	3 18
5	0 30 31	6 36 46	12 43 0	18 49 15	0.05	0 18	0.55	3 21
6	0 36 37	6 42 52	12 49 7	18 55 21	0.06	0 22	0.56	3 25
7	0 42 44	6 48 58	12 55 13	19 1 27	0.07	0 26	0.57	3 29
8	0 48 50	6 55 4	13 1 19	19 7 34	0.08	0 29	0.58	3 32
9	0 54 56	7 1 11	13 7 25	19 13 40	0.09	0 33	0.59	3 36
10	1 1 2	7 7 17	13 13 31	19 19 46	0.10	0 37	0.60	3 40
11	1 7 9	7 13 23	13 19 38	19 25 52	0.11	0 40	0.61	3 43
12	1 13 15	7 19 29	13 25 44	19 31 59	0.12	0 44	0.62	3 47
13	1 19 21	7 25 36	13 31 50	19 38 5	0.13	0 48	0.63	3 51
14	1 25 27	7 31 42	13 37 56	19 44 11	0.14	0 51	0.64	3 54
15	1 31 34	7 37 48	13 44 3	19 50 17	0.15	0 55	0.65	3 58
16	1 37 40	7 43 54	13 50 9	19 56 23	0.16	0 59	0.66	4 2
17	1 43 46	7 50 1	13 56 15	20 2 30	0.17	1 2	0.67	4 5
18	1 49 52	7 56 7	14 2 21	20 8 36	0.18	1 6	0.68	4 9
19	1 55 59	8 2 13	14 8 28	20 14 42	0.19	1 10	0.69	4 13
20	2 2 5	8 8 19	14 14 34	20 20 48	0.20	1 13	0.70	4 16
21	2 8 11	8 14 26	14 20 40	20 26 55	0.21	1 17	0.71	4 20
22	2 14 17	8 20 32	14 26 46	20 33 1	0.22	1 21	0.72	4 24
23	2 20 24	8 26 38	14 32 53	20 39 7	0.23	1 24	0.73	4 27
24	2 26 30	8 32 44	14 38 59	20 45 13	0.24	1 28	0.74	4 31
25	2 32 36	8 38 51	14 45 5	20 51 20	0.25	1 32	0.75	4 35
26	2 38 42	8 44 57	14 51 11	20 57 26	0.26	1 35	0.76	4 38
27	2 44 49	8 51 3	14 57 18	21 3 32	0.27	1 39	0.77	4 42
28	2 50 55	8 57 9	15 3 24	21 9 38	0.28	1 43	0.78	4 46
29	2 57 1	9 3 16	15 9 30	21 15 45	0.29	1 46	0.79	4 49
30	3 3 7	9 9 22	15 15 36	21 21 51	0.30	1 50	0.80	4 53
31	3 9 14	9 15 28	15 21 43	21 27 57	0.31	1 54	0.81	4 57
32	3 15 20	9 21 34	15 27 49	21 34 3	0.32	1 57	0.82	5 0
33	3 21 26	9 27 41	15 33 55	21 40 10	0.33	2 1	0.83	5 4
34	3 27 32	9 33 47	15 40 1	21 46 16	0.34	2 5	0.84	5 8
35	3 33 38	9 39 53	15 46 8	21 52 22	0.35	2 8	0.85	5 11
36	3 39 45	9 45 59	15 52 14	21 58 28	0.36	2 12	0.86	5 15
37	3 45 51	9 52 5	15 58 20	22 4 35	0.37	2 16	0.87	5 19
38	3 51 57	9 58 12	16 4 26	22 10 41	0.38	2 19	0.88	5 22
39	3 58 3	10 4 18	16 10 33	22 16 47	0.39	2 23	0.89	5 26
40	4 4 10	10 10 24	16 16 39	22 22 53	0.40	2 26	0.90	5 30
41	4 10 16	10 16 30	16 22 45	22 29 0	0.41	2 30	0.91	5 33
42	4 16 22	10 22 37	16 28 51	22 35 6	0.42	2 34	0.92	5 37
43	4 22 28	10 28 43	16 34 57	22 41 12	0.43	2 37	0.93	5 41
44	4 28 35	10 34 49	16 41 4	22 47 18	0.44	2 41	0.94	5 44
45	4 34 41	10 40 55	16 47 10	22 53 24	0.45	2 45	0.95	5 48
46	4 40 47	10 47 2	16 53 16	22 59 31	0.46	2 48	0.96	5 52
47	4 46 53	10 53 8	16 59 22	23 5 37	0.47	2 52	0.97	5 55
48	4 53 0	10 59 14	17 5 29	23 11 43	0.48	2 56	0.98	5 59
49	4 59 6	11 5 20	17 11 35	23 17 49	0.49	2 59	0.99	6 3
50	5 5 12	11 11 27	17 17 41	23 23 56	0.50	3 3	1.00	6 6
51	5 11 18	11 17 33	17 23 47	23 30 2				
52	5 17 25	11 23 39	17 29 54	23 36 8				
53	5 23 31	11 29 45	17 36 0	23 42 14				
54	5 29 37	11 35 52	17 42 6	23 48 21				
55	5 35 43	11 41 58	17 48 12	23 54 27				
56	5 41 50	11 48 4	17 54 19	24 0 33				
57	5 47 56	11 54 10	18 0 25	24 6 39				
58	5 54 2	12 0 17	18 6 31	24 12 46				
59	6 0 8	12 6 23	18 12 37	24 18 52				

Die Reduktion ist von der Sternzeit zu subtrahieren.

Red.	0^m	1^m	2^m	3^m	Red.
s	h m s	h m s	h m s	h m s	s
0	0 0 0.0	6 5 14.5	12 10 29.1	18 15 43.6	0
1	6 5.2	11 19.8	16 34.3	21 48.8	1
2	12 10.5	17 25.0	22 39.6	27 54.1	2
3	18 15.7	23 30.3	28 44.8	33 59.3	3
4	24 21.0	29 35.5	34 50.0	40 4.6	4
5	30 26.2	35 40.7	40 55.3	46 9.8	5
6	36 31.5	41 46.0	47 0.5	52 15.1	6
7	42 36.7	47 51.2	53 5.8	18 58 20.3	7
8	48 41.9	6 53 56.5	12 59 11.0	19 4 25.5	8
9	0 54 47.2	7 0 1.7	13 5 16.2	10 30.8	9
10	1 0 52.4	6 7.0	11 21.5	16 36.0	10
11	6 57.7	12 12.2	17 26.7	22 41.3	11
12	13 2.9	18 17.4	23 32.0	28 46.5	12
13	19 8.1	24 22.7	29 37.2	34 51.8	13
14	25 13.4	30 27.9	35 42.5	40 57.0	14
15	31 18.6	36 33.2	41 47.7	47 2.2	15
16	37 23.9	42 38.4	47 52.9	53 7.5	16
17	43 29.1	48 43.7	13 53 58.2	19 59 12.7	17
18	49 34.4	7 54 48.9	14 0 3.4	20 5 18.0	18
19	1 55 39.6	8 0 54.1	6 8.7	11 23.2	19
20	2 1 44.8	6 59.4	12 13.9	17 28.4	20
21	7 50.1	13 4.6	18 19.2	23 33.7	21
22	13 55.3	19 9.9	24 24.4	29 38.9	22
23	20 0.6	25 15.1	30 29.6	35 44.2	23
24	26 5.8	31 20.3	36 34.9	41 49.4	24
25	32 11.1	37 25.6	42 40.1	47 54.7	25
26	38 16.3	43 30.8	48 45.4	20 53 59.9	26
27	44 21.5	49 36.1	14 54 50.6	21 0 5.1	27
28	50 26.8	8 55 41.3	15 0 55.9	6 10.4	28
29	2 56 32.0	9 1 46.6	7 1.1	12 15.6	29
30	3 2 37.3	7 51.8	13 6.3	18 20.9	30
31	8 42.5	13 57.0	19 11.6	24 26.1	31
32	14 47.8	20 2.3	25 16.8	30 31.4	32
33	20 53.0	26 7.5	31 22.1	36 36.6	33
34	26 58.2	32 12.8	37 27.3	42 41.8	34
35	33 3.5	38 18.0	43 32.5	48 47.1	35
36	39 8.7	44 23.3	49 37.8	21 54 52.3	36
37	45 14.0	50 28.5	15 55 43.0	22 0 57.6	37
38	51 19.2	9 56 33.7	16 1 48.3	7 2.8	38
39	3 57 24.4	10 2 39.0	7 53.5	13 8.0	39
40	4 3 29.7	8 44.2	13 58.8	19 13.3	40
41	9 34.9	14 49.5	20 4.0	25 18.5	41
42	15 40.2	20 54.7	26 9.2	31 23.8	42
43	21 45.4	27 0.0	32 14.5	37 29.0	43
44	27 50.7	33 5.2	38 19.7	43 34.3	44
45	33 55.9	39 10.4	44 25.0	49 39.5	45
46	40 1.1	45 15.7	50 30.2	22 55 44.7	46
47	46 6.4	51 20.9	16 56 35.5	23 1 50.0	47
48	52 11.6	10 57 26.2	17 2 40.7	7 55.2	48
49	4 58 16.9	11 3 31.4	8 45.9	14 0.5	49
50	5 4 22.1	9 36.6	14 51.2	20 5.7	50
51	10 27.4	15 41.9	20 56.4	26 11.0	51
52	16 32.6	21 47.1	27 1.7	32 16.2	52
53	22 37.8	27 52.4	33 6.9	38 21.4	53
54	28 43.1	33 57.6	39 12.1	44 26.7	54
55	34 48.3	40 2.9	45 17.4	50 31.9	55
56	40 53.6	46 8.1	51 22.6	23 56 37.2	56
57	46 58.8	52 13.3	17 57 27.9	24 2 42.4	57
58	53 4.0	11 58 18.6	18 3 33.1	8 47.7	58
59	5 59 9.3	12 4 23.8	18 9 38.4	24 14 52.9	59

Die Reduktion ist zur mittleren Zeit zu addieren.

Red.		Red.	
s	m s	s	m s
0.00	0 0.0	0.50	3 2.6
01	3.7	51	6.3
02	7.3	52	9.9
03	11.0	53	13.6
04	14.6	54	17.2
0.05	18.3	0.55	20.9
06	21.9	56	24.5
07	25.6	57	28.2
08	29.2	58	31.8
09	32.9	59	35.5
0.10	36.5	0.60	39.1
11	40.2	61	42.8
12	43.8	62	46.5
13	47.5	63	50.1
14	51.1	64	53.8
0.15	54.8	0.65	3 57.4
16	0 58.4	66	4 1.1
17	1 2.1	67	4.7
18	5.7	68	8.4
19	9.4	69	12.0
0.20	13.0	0.70	15.7
21	16.7	71	19.3
22	20.4	72	23.0
23	24.0	73	26.6
24	27.7	74	30.3
0.25	31.3	0.75	33.9
26	35.0	76	37.6
27	38.6	77	41.2
28	42.3	78	44.9
29	45.9	79	48.5
0.30	49.6	0.80	52.2
31	53.2	81	55.8
32	1 56.9	82	4 59.5
33	2 0.5	83	5 3.2
34	4.2	84	6.8
0.35	7.8	0.85	10.5
36	11.5	86	14.1
37	15.1	87	17.8
38	18.8	88	21.4
39	22.4	89	25.1
0.40	26.1	0.90	28.7
41	29.7	91	32.4
42	33.4	92	36.0
43	37.1	93	39.7
44	40.7	94	43.3
0.45	44.4	0.95	47.0
46	48.0	96	50.6
47	51.7	97	54.3
48	55.3	98	5 57.9
0.49	2 59.0	0.99	6 1.6

Red.		Red.		Red.	
s	s	s	s	s	s
0.000		0.003		0.006	
	0.2		1.3		2.4
001		004		007	
	0.5		1.6		2.7
002		005		008	
	0.9		2.0		3.1
003		006		009	
	1.3		2.4		3.5
0.004		0.007		0.010	
					3.8

Red.	0m	1m	2m	3m	Red.
s	h m s	h m s	h m s	h m s	s
0	0 0 0.0	6 6 14.5	12 12 29.1	18 18 43.6	0
1	6 6.2	12 20.8	18 35.3	24 49.9	1
2	12 12.5	18 27.0	24 41.6	30 56.1	2
3	18 18.7	24 33.3	30 47.8	37 2.3	3
4	24 25.0	30 39.5	36 54.0	43 8.6	4
5	30 31.2	36 45.7	43 0.3	49 14.8	5
6	36 37.5	42 52.0	49 6.5	18 55 21.1	6
7	42 43.7	48 58.2	12 55 12.8	19 1 27.3	7
8	48 49.9	6 55 4.5	13 1 19.0	7 33.5	8
9	0 54 56.2	7 1 10.7	7 25.3	13 39.8	9
10	1 1 2.4	7 17.0	13 31.5	19 46.0	10
11	7 8.7	13 23.2	19 37.7	25 52.3	11
12	13 14.9	19 29.4	25 44.0	31 58.5	12
13	19 21.1	25 35.7	31 50.2	38 4.8	13
14	25 27.4	31 41.9	37 56.5	44 11.0	14
15	31 33.6	37 48.2	44 2.7	50 17.2	15
16	37 39.9	43 54.4	50 8.9	19 56 23.5	16
17	43 46.1	50 0.7	13 56 15.2	20 2 29.7	17
18	49 52.4	7 56 6.9	14 2 21.4	8 36.0	18
19	1 55 58.6	8 2 13.1	8 27.7	14 42.2	19
20	2 2 4.8	8 19.4	14 33.9	20 48.5	20
21	8 11.1	14 25.6	20 40.2	26 54.7	21
22	14 17.3	20 31.9	26 46.4	33 0.9	22
23	20 23.6	26 38.1	32 52.6	39 7.2	23
24	26 29.8	32 44.4	38 58.9	45 13.4	24
25	32 36.1	38 50.6	45 5.1	51 19.7	25
26	38 42.3	44 56.8	51 11.4	20 57 25.9	26
27	44 48.5	51 3.1	14 57 17.6	21 3 32.2	27
28	50 54.8	8 57 9.3	15 3 23.9	9 38.4	28
29	2 57 1.0	9 3 15.6	9 30.1	15 44.6	29
30	3 3 7.3	9 21.8	15 36.3	21 50.9	30
31	9 13.5	15 28.0	21 42.6	27 57.1	31
32	15 19.8	21 34.3	27 48.8	34 3.4	32
33	21 26.0	27 40.5	33 55.1	40 9.6	33
34	27 32.2	33 46.8	40 1.3	46 15.8	34
35	33 38.5	39 53.0	46 7.6	52 22.1	35
36	39 44.7	45 59.3	52 13.8	21 58 28.3	36
37	45 51.0	52 5.5	15 58 20.0	22 4 34.6	37
38	51 57.2	9 58 11.7	16 4 26.3	10 40.8	38
39	3 58 3.4	10 4 18.0	10 32.5	16 47.1	39
40	4 4 9.7	10 24.2	16 38.8	22 53.3	40
41	10 15.9	16 30.5	22 45.0	28 59.5	41
42	16 22.2	22 36.7	28 51.2	35 5.8	42
43	22 28.4	28 43.0	34 57.5	41 12.0	43
44	28 34.7	34 49.2	41 3.7	47 18.3	44
45	34 40.9	40 55.4	47 10.0	53 24.5	45
46	40 47.1	47 1.7	53 16.2	22 59 30.8	46
47	46 53.4	53 7.9	16 59 22.5	23 5 37.0	47
48	52 59.6	10 59 14.2	17 5 28.7	11 43.2	48
49	4 59 5.9	11 5 20.4	11 34.9	17 49.5	49
50	5 5 12.1	11 26.7	17 41.2	23 55.7	50
51	11 18.4	17 32.9	23 47.4	30 2.0	51
52	17 24.6	23 39.1	29 53.7	36 8.2	52
53	23 30.8	29 45.4	35 59.9	42 14.5	53
54	29 37.1	35 51.6	42 6.2	48 20.7	54
55	35 43.3	41 57.9	48 12.4	23 54 26.9	55
56	41 49.6	48 4.1	17 54 18.6	24 0 33.2	56
57	47 55.8	11 54 10.3	18 0 24.9	6 39.4	57
58	5 54 2.1	12 0 16.6	6 31.1	12 45.7	58
59	6 0 8.3	12 6 22.8	18 12 37.4	24 18 51.9	59

Die Reduktion ist von der Sternzeit zu subtrahieren.

Red.		Red.	
s	m s	s	m s
0.00	0 0.0	0.50	3 3.1
01	3.7	51	6.8
02	7.3	52	10.4
03	11.0	53	14.1
04	14.6	54	17.8
0.05	18.3	0.55	21.4
06	22.0	56	25.1
07	25.6	57	28.8
08	29.3	58	32.4
09	33.0	59	36.1
0.10	36.6	0.60	39.7
11	40.3	61	43.4
12	43.9	62	47.1
13	47.6	63	50.7
14	51.3	64	54.4
0.15	54.9	0.65	3 58.1
16	0 58.6	66	4 1.7
17	1 2.3	67	5.4
18	5.9	68	9.0
19	9.6	69	12.7
0.20	13.2	0.70	16.4
21	16.9	71	20.0
22	20.6	72	23.7
23	24.2	73	27.4
24	27.9	74	31.0
0.25	31.6	0.75	34.7
26	35.2	76	38.3
27	38.9	77	42.0
28	42.5	78	45.7
29	46.2	79	49.3
0.30	49.9	0.80	53.0
31	53.5	81	4 56.7
32	1 57.2	82	5 0.3
33	2 0.9	83	4.0
34	4.5	84	7.6
0.35	8.2	0.85	11.3
36	11.8	86	15.0
37	15.5	87	18.6
38	19.2	88	22.3
39	22.8	89	26.0
0.40	26.5	0.90	29.6
41	30.2	91	33.3
42	33.8	92	36.9
43	37.5	93	40.6
44	41.1	94	44.3
0.45	44.8	0.95	47.9
46	48.5	96	51.6
47	52.1	97	55.3
48	55.8	98	5 58.9
0.49	2 59.5	0.99	6 2.6

Red.		Red.		Red.	
s	s	s	s	s	s
0.000		0.003		0.006	
	0.2		1.3		2.4
001		004		007	
	0.5		1.6		2.7
002		005		008	
	0.9		2.0		3.1
003		006		009	
	1.3		2.4		3.5
0.004		0.007		0.010	
					3.8

	0^h	1^h	2^h	3^h	4^h	5^h		
m	d	d	d	d	d	d	s	d
0	0.000000	0.041667	0.083333	0.125000	0.166667	0.208333	0	0.000000
1	000694	042361	084028	125694	167361	209028	1	000012
2	001389	043056	084722	126389	168056	209722	2	000023
3	002083	043750	085417	127083	168750	210417	3	000035
4	002778	044444	086111	127778	169444	211111	4	000046
5	0.003472	0.045139	0.086806	0.128472	0.170139	0.211806	5	0.000058
6	004167	045833	087500	129167	170833	212500	6	000069
7	004861	046528	088194	129861	171528	213194	7	000081
8	005556	047222	088889	130556	172222	213889	8	000093
9	006250	047917	089583	131250	172917	214583	9	000104
10	0.006944	0.048611	0.090278	0.131944	0.173611	0.215278	10	0.000116
11	007639	049306	090972	132639	174306	215972	11	000127
12	008333	050000	091667	133333	175000	216667	12	000139
13	009028	050694	092361	134028	175694	217361	13	000150
14	009722	051389	093056	134722	176389	218056	14	000162
15	0.010417	0.052083	0.093750	0.135417	0.177083	0.218750	15	0.000174
16	011111	052778	094444	136111	177778	219444	16	000185
17	011806	053472	095139	136806	178472	220139	17	000197
18	012500	054167	095833	137500	179167	220833	18	000208
19	013194	054861	096528	138194	179861	221528	19	000220
20	0.013889	0.055556	0.097222	0.138889	0.180556	0.222222	20	0.000231
21	014583	056250	097917	139583	181250	222917	21	000243
22	015278	056944	098611	140278	181944	223611	22	000255
23	015972	057639	099306	140972	182639	224306	23	000266
24	016667	058333	100000	141667	183333	225000	24	000278
25	0.017361	0.059028	0.100694	0.142361	0.184028	0.225694	25	0.000289
26	018056	059722	101389	143056	184722	226389	26	000301
27	018750	060417	102083	143750	185417	227083	27	000313
28	019444	061111	102778	144444	186111	227778	28	000324
29	020139	061806	103472	145139	186806	228472	29	000336
30	0.020833	0.062500	0.104167	0.145833	0.187500	0.229167	30	0.000347
31	021528	063194	104861	146528	188194	229861	31	000359
32	022222	063889	105556	147222	188889	230556	32	000370
33	022917	064583	106250	147917	189583	231250	33	000382
34	023611	065278	106944	148611	190278	231944	34	000394
35	0.024306	0.065972	0.107639	0.149306	0.190972	0.232639	35	0.000405
36	025000	066667	108333	150000	191667	233333	36	000417
37	025694	067361	109028	150694	192361	234028	37	000428
38	026389	068056	109722	151389	193056	234722	38	000440
39	027083	068750	110417	152083	193750	235417	39	000451
40	0.027778	0.069444	0.111111	0.152778	0.194444	0.236111	40	0.000463
41	028472	070139	111806	153472	195139	236806	41	000475
42	029167	070833	112500	154167	195833	237500	42	000486
43	029861	071528	113194	154861	196528	238194	43	000498
44	030556	072222	113889	155556	197222	238889	44	000509
45	0.031250	0.072917	0.114583	0.156250	0.197917	0.239583	45	0.000521
46	031944	073611	115278	156944	198611	240278	46	000532
47	032639	074306	115972	157639	199306	240972	47	000544
48	033333	075000	116667	158333	200000	241667	48	000556
49	034028	075694	117361	159028	200694	242361	49	000567
50	0.034722	0.076389	0.118056	0.159722	0.201389	0.243056	50	0.000579
51	035417	077083	118750	160417	202083	243750	51	000590
52	036111	077778	119444	161111	202778	244444	52	000602
53	036806	078472	120139	161806	203472	245139	53	000613
54	037500	079167	120833	162500	204167	245833	54	000625
55	0.038194	0.079861	0.121528	0.163194	0.204861	0.246528	55	0.000637
56	038889	080556	122222	163889	205556	247222	56	000648
57	039583	081250	122917	164583	206250	247917	57	000660
58	040278	081944	123611	165278	206944	248611	58	000671
59	0.040972	0.082639	0.124306	0.165972	0.207639	0.249306	59	0.000683

m	6^h	7^h	8^h	9^h	10^h	11^h	s	
	d	d	d	d	d	d		d
0	0.250000	0.291667	0.333333	0.375000	0.416667	0.458333	0	0.000000
1	250694	292361	334028	375694	417361	459028	1	000012
2	251389	293056	334722	376389	418056	459722	2	000023
3	252083	293750	335417	377083	418750	460417	3	000035
4	252778	294444	336111	377778	419444	461111	4	000046
5	0.253472	0.295139	0.336806	0.378472	0.420139	0.461806	5	0.000058
6	254167	295833	337500	379167	420833	462500	6	000069
7	254861	296528	338194	379861	421528	463194	7	000081
8	255556	297222	338889	380556	422222	463889	8	000093
9	256250	297917	339583	381250	422917	464583	9	000104
10	0.256944	0.298611	0.340278	0.381944	0.423611	0.465278	10	0.000116
11	257639	299306	340972	382639	424306	465972	11	000127
12	258333	300000	341667	383333	425000	466667	12	000139
13	259028	300694	342361	384028	425694	467361	13	000150
14	259722	301389	343056	384722	426389	468056	14	000162
15	0.260417	0.302083	0.343750	0.385417	0.427083	0.468750	15	0.000174
16	261111	302778	344444	386111	427778	469444	16	000185
17	261806	303472	345139	386806	428472	470139	17	000197
18	262500	304167	345833	387500	429167	470833	18	000208
19	263194	304861	346528	388194	429861	471528	19	000220
20	0.263889	0.305556	0.347222	0.388889	0.430556	0.472222	20	0.000231
21	264583	306250	347917	389583	431250	472917	21	000243
22	265278	306944	348611	390278	431944	473611	22	000255
23	265972	307639	349306	390972	432639	474306	23	000266
24	266667	308333	350000	391667	433333	475000	24	000278
25	0.267361	0.309028	0.350694	0.392361	0.434028	0.475694	25	0.000289
26	268056	309722	351389	393056	434722	476389	26	000301
27	268750	310417	352083	393750	435417	477083	27	000313
28	269444	311111	352778	394444	436111	477778	28	000324
29	270139	311806	353472	395139	436806	478472	29	000336
30	0.270833	0.312500	0.354167	0.395833	0.437500	0.479167	30	0.000347
31	271528	313194	354861	396528	438194	479861	31	000359
32	272222	313889	355556	397222	438889	480556	32	000370
33	272917	314583	356250	397917	439583	481250	33	000382
34	273611	315278	356944	398611	440278	481944	34	000394
35	0.274306	0.315972	0.357639	0.399306	0.440972	0.482639	35	0.000405
36	275000	316667	358333	400000	441667	483333	36	000417
37	275694	317361	359028	400694	442361	484028	37	000428
38	276389	318056	359722	401389	443056	484722	38	000440
39	277083	318750	360417	402083	443750	485417	39	000451
40	0.277778	0.319444	0.361111	0.402778	0.444444	0.486111	40	0.000463
41	278472	320139	361806	403472	445139	486806	41	000475
42	279167	320833	362500	404167	445833	487500	42	000486
43	279861	321528	363194	404861	446528	488194	43	000498
44	280556	322222	363889	405556	447222	488889	44	000509
45	0.281250	0.322917	0.364583	0.406250	0.447917	0.489583	45	0.000521
46	281944	323611	365278	406944	448611	490278	46	000532
47	282639	324306	365972	407639	449306	490972	47	000544
48	283333	325000	366667	408333	450000	491667	48	000556
49	284028	325694	367361	409028	450694	492361	49	000567
50	0.284722	0.326389	0.368056	0.409722	0.451389	0.493056	50	0.000579
51	285417	327083	368750	410417	452083	493750	51	000590
52	286111	327778	369444	411111	452778	494444	52	000602
53	286806	328472	370139	411806	453472	495139	53	000613
54	287500	329167	370833	412500	454167	495833	54	000625
55	0.288194	0.329861	0.371528	0.413194	0.454861	0.496528	55	0.000637
56	288889	330556	372222	413889	455556	497222	56	000648
57	289583	331250	372917	414583	456250	497917	57	000660
58	290278	331944	373611	415278	456944	498611	58	000671
59	0.290972	0.332639	0.374306	0.415972	0.457639	0.499306	59	0.000683

I. Anzahl der am 0. Januar, 12^h Welt-Zeit, seit Anfang der Periode verflossenen Tage

Jahr n. Chr.	0	100	200	300	400	500	600	700	800	900
	17	17	17	18	18	19	19	19	20	20
0	21057	57582	94107	30632	67157	03682	40207	76732	13257	49782
4	22518	59043	95568	32093	68618	05143	41668	78193	14718	51243
8	23979	60504	97029	33554	70079	06604	43129	79654	16179	52704
12	25440	61965	98490	35015	71540	08065	44590	81115	17640	54165
16	26901	63426	99951	36476	73001	09526	46051	82576	19101	55626
20	28362	64887	01412	37937	74462	10987	47512	84037	20562	57087
24	29823	66348	02873	39398	75923	12448	48973	85498	22023	58548
28	31284	67809	04334	40859	77384	13909	50434	86959	23484	60009
32	32745	69270	05795	42320	78845	15370	51895	88420	24945	61470
36	34206	70731	07256	43781	80306	16831	53356	89881	26406	62931
40	35667	72192	08717	45242	81767	18292	54817	91342	27867	64392
44	37128	73653	10178	46703	83228	19753	56278	92803	29328	65853
48	38589	75114	11639	48164	84689	21214	57739	94264	30789	67314
52	40050	76575	13100	49625	86150	22675	59200	95725	32250	68775
56	41511	78036	14561	51086	87611	24136	60661	97186	33711	70236
60	42972	79497	16022	52547	89072	25597	62122	98647	35172	71697
64	44433	80958	17483	54008	90533	27058	63583	00108	36633	73158
68	45894	82419	18944	55469	91994	28519	65044	01569	38094	74619
72	47355	83880	20405	56930	93455	29980	66505	03030	39555	76080
76	48816	85341	21866	58391	94916	31441	67966	04491	41016	77541
80	50277	86802	23327	59852	96377	32902	69427	05952	42477	79002
84	51738	88263	24788	61313	97838	34363	70888	07413	43938	80463
88	53199	89724	26249	62774	99299	35824	72349	08874	45399	81924
92	54660	91185	27710	64235	00760	37285	73810	10335	46860	83385
96	56121	92646	29171	65696	02221	38746	75271	11796	48321	84846
100	57582	94107	30632	67157	03682	40207	76732	13257	49782	86307
	17	17	18	18	19	19	19	20	20	20

Ia. Anzahl der am 0. eines jeden Monats, 12^h Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage

Jahr	Jan. 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
0	0	31	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

I. Anzahl der am 0. Januar, 12ʰ Welt-Zeit, seit Anfang der Periode verflossenen Tage

Jahr n. Chr.	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900
	20	21	21	21	22	22	23	23	23	24
0	86307	22832	59357	95882	32407	68932	05447	41971[1]	78495[1]	15019[1]
4	87768	24293	60818	97343	33868	70393	06908	43432	79956	16480
8	89229	25754	62279	98804	35329	71854	08369	44893	81417	17941
12	90690	27215	63740	00265	36790	73315	09830	46354	82878	19402
16	92151	28676	65201	01726	38251	74776	11291	47815	84339	20863
20	93612	30137	66662	03187	39712	76237	12752	49276	85800	22324
24	95073	31598	68123	04648	41173	77698	14213	50737	87261	23785
28	96534	33059	69584	06109	42634	79159	15674	52198	88722	25246
32	97995	34520	71045	07570	44095	80620	17135	53659	90183	26707
36	99456	35981	72506	09031	45556	82081	18596	55120	91644	28168
40	00917	37442	73967	10492	47017	83542	20057	56581	93105	29629
44	02378	38903	75428	11953	48478	85003	21518	58042	94566	31090
48	03839	40364	76889	13414	49939	86464	22979	59503	96027	32551
52	05300	41825	78350	14875	51400	87925	24440	60964	97488	34012
56	06761	43286	79811	16336	52861	89386	25901	62425	98949	35473
60	08222	44747	81272	17797	54322	90847	27362	63886	00410	36934
64	09683	46208	82733	19258	55783	92308	28823	65347	01871	38395
68	11144	47669	84194	20719	57244	93769	30284	66808	03332	39856
72	12605	49130	85655	22180	58705	95230	31745	68269	04793	41317
76	14066	50591	87116	23641	60166	96691	33206	69730	06254	42778
80	15527	52052	88577	25102	61627	98152	34667	71191	07715	44239
84	16988	53513	90038	26563	63088	99603	36128	72652	09176	45700
88	18449	54974	91499	28024	64549	01064	37589	74113	10637	47161
92	19910	56435	92960	29485	66010	02525	39050	75574	12098	48622
96	21371	57896	94421	30946	67471	03986	40511	77035	13559	50083
100	22832	59357	95882	32407	68932	05447	41971[1]	78495[1]	15019[1]	51544
	21	21	21	22	22	23	23	23	24	24

[1] Die Zahlen geben die am —1. Jan. seit Anfang der Periode verflossenen Tage.

Ia. Anzahl der am 0. eines jeden Monats, 12ʰ Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage

Jahr	Jan. 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
0	0[2]	31[2]	60	91	121	152	182	213	244	274	305	335
1	366	397	425	456	486	517	547	578	609	639	670	700
2	731	762	790	821	851	882	912	943	974	1004	1035	1065
3	1096	1127	1155	1186	1216	1247	1277	1308	1339	1369	1400	1430

Von 1582 Okt. 15 bis 1583 Dez. 31 sind die Zahlen der Tafel Ia um 10 zu verkleinern.

[2] In den Jahren 1700, 1800, 1900 um 1 zu vergrößern.

Julianische Periode

II. Anzahl der am 0. eines jeden Monats, 12^h Welt-Zeit, seit Beginn der Periode verflossenen Tage

Jahr n. Chr.	Januar 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1860	2400 410	441	470	501	531	562	592	623	654	684	715	745
1861	776	807	835	866	896	927	957	988	*019	*049	*080	*110
1862	2401 141	172	200	231	261	292	322	353	384	414	445	475
1863	506	537	565	596	626	657	687	718	749	779	810	840
1864	871	902	931	962	992	*023	*053	*084	*115	*145	*176	*206
1865	2402 237	268	296	327	357	388	418	449	480	510	541	571
1866	602	633	661	692	722	753	783	814	845	875	906	936
1867	967	998	*026	*057	*087	*118	*148	*179	*210	*240	*271	*301
1868	2403 332	363	392	423	453	484	514	545	576	606	637	667
1869	698	729	757	788	818	849	879	910	941	971	*002	*032
1870	2404 063	094	122	153	183	214	244	275	306	336	367	397
1871	428	459	487	518	548	579	609	640	671	701	732	762
1872	793	824	853	884	914	945	975	*006	*037	*067	*098	*128
1873	2405 159	190	218	249	279	310	340	371	402	432	463	493
1874	524	555	583	614	644	675	705	736	767	797	828	858
1875	889	920	948	979	*009	*040	*070	*101	*132	*162	*193	*223
1876	2406 254	285	314	345	375	406	436	467	498	528	559	589
1877	620	651	679	710	740	771	801	832	863	893	924	954
1878	985	*016	*044	*075	*105	*136	*166	*197	*228	*258	*289	*319
1879	2407 350	381	409	440	470	501	531	562	593	623	654	684
1880	715	746	775	806	836	867	897	928	959	989	*020	*050
1881	2408 081	112	140	171	201	232	262	293	324	354	385	415
1882	446	477	505	536	566	597	627	658	689	719	750	780
1883	811	842	870	901	931	962	992	*023	*054	*084	*115	*145
1884	2409 176	207	236	267	297	328	358	389	420	450	481	511
1885	542	573	601	632	662	693	723	754	785	815	846	876
1886	907	938	966	997	*027	*058	*088	*119	*150	*180	*211	*241
1887	2410 272	303	331	362	392	423	453	484	515	545	576	606
1888	637	668	697	728	758	789	819	850	881	911	942	972
1889	2411 003	034	062	093	123	154	184	215	246	276	307	337
1890	368	399	427	458	488	519	549	580	611	641	672	702
1891	733	764	792	823	853	884	914	945	976	*006	*037	*067
1892	2412 098	129	158	189	219	250	280	311	342	372	403	433
1893	464	495	523	554	584	615	645	676	707	737	768	798
1894	829	860	888	919	949	980	*010	*041	*072	*102	*133	*163
1895	2413 194	225	253	284	314	345	375	406	437	467	498	528
1896	559	590	619	650	680	711	741	772	803	833	864	894
1897	925	956	984	*015	*045	*076	*106	*137	*168	*198	*229	*259
1898	2414 290	321	349	380	410	441	471	502	533	563	594	624
1899	655	686	714	745	775	806	836	867	898	928	959	989

Julianische Periode

II. Anzahl der am o. eines jeden Monats, 12h Welt-Zeit, seit Beginn der Periode verflossenen Tage

Jahr n. Chr.	Januar o	Febr. o	März o	April o	Mai o	Juni o	Juli o	Aug. o	Sept. o	Okt. o	Nov. o	Dez. o
1900	2415 020	051	079	110	140	171	201	232	263	293	324	354
1901	385	416	444	475	505	536	566	597	628	658	689	719
1902	750	781	809	840	870	901	931	962	993	*023	*054	*084
1903	2416 115	146	174	205	235	266	296	327	358	388	419	449
1904	480	511	540	571	601	632	662	693	724	754	785	815
1905	846	877	905	936	966	997	*027	*058	*089	*119	*150	*180
1906	2417 211	242	270	301	331	362	392	423	454	484	515	545
1907	576	607	635	666	696	727	757	788	819	849	880	910
1908	941	972	*001	*032	*062	*093	*123	*154	*185	*215	*246	*276
1909	2418 307	338	366	397	427	458	488	519	550	580	611	641
1910	672	703	731	762	792	823	853	884	915	945	976	*006
1911	2419 037	068	096	127	157	188	218	249	280	310	341	371
1912	402	433	462	493	523	554	584	615	646	676	707	737
1913	768	799	827	858	888	919	949	980	*011	*041	*072	*102
1914	2420 133	164	192	223	253	284	314	345	376	406	437	467
1915	498	529	557	588	618	649	679	710	741	771	802	832
1916	863	894	923	954	984	*015	*045	*076	*107	*137	*168	*198
1917	2421 229	260	288	319	349	380	410	441	472	502	533	563
1918	594	625	653	684	714	745	775	806	837	867	898	928
1919	959	990	*018	*049	*079	*110	*140	*171	*202	*232	*263	*293
1920	2422 324	355	384	415	445	476	506	537	568	598	629	659
1921	690	721	749	780	810	841	871	902	933	963	994	*024
1922	2423 055	086	114	145	175	206	236	267	298	328	359	389
1923	420	451	479	510	540	571	601	632	663	693	724	754
1924	785	816	845	876	906	937	967	998	*029	*059	*090	*120
1925	2424 151	182	210	241	271	302	332	363	394	424	455	485
1926	516	547	575	606	636	667	697	728	759	789	820	850
1927	881	912	940	971	*001	*032	*062	*093	*124	*154	*185	*215
1928	2425 246	277	306	337	367	398	428	459	490	520	551	581
1929	612	643	671	702	732	763	793	824	855	885	916	946
1930	977	*008	*036	*067	*097	*128	*158	*189	*220	*250	*281	*311
1931	2426 342	373	401	432	462	493	523	554	585	615	646	676
1932	707	738	767	798	828	859	889	920	951	981	*012	*042
1933	2427 073	104	132	163	193	224	254	285	316	346	377	407
1934	438	469	497	528	558	589	619	650	681	711	742	772
1935	803	834	862	893	923	954	984	*015	*046	*076	*107	*137
1936	2428 168	199	228	259	289	320	350	381	412	442	473	503
1937	534	565	593	624	654	685	715	746	777	807	838	868
1938	899	930	958	989	*019	*050	*080	*111	*142	*172	*203	*233
1939	2429 264	295	323	354	384	415	445	476	507	537	568	598

Julianische Periode

II. Anzahl der am 0. eines jeden Monats, 12^h Welt-Zeit, seit Beginn der Periode verflossenen Tage

Jahr n. Chr.	Januar 0	Febr. 0	März 0	April 0	Mai 0	Juni 0	Juli 0	Aug. 0	Sept. 0	Okt. 0	Nov. 0	Dez. 0
1940	2429 629	660	689	720	750	781	811	842	873	903	934	964
1941	995	*026	*054	*085	*115	*146	*176	*207	*238	*268	*299	*329
1942	2430 360	391	419	450	480	511	541	572	603	633	664	694
1943	725	756	784	815	845	876	906	937	968	998	*029	*059
1944	2431 090	121	150	181	211	242	272	303	334	364	395	425
1945	456	487	515	546	576	607	637	668	699	729	760	790
1946	821	852	880	911	941	972	*002	*033	*064	*094	*125	*155
1947	2432 186	217	245	276	306	337	367	398	429	459	490	520
1948	551	582	611	642	672	703	733	764	795	825	856	886
1949	917	948	976	*007	*037	*068	*098	*129	*160	*190	*221	*251
1950	2433 282	313	341	372	402	433	463	494	525	555	586	616
1951	647	678	706	737	767	798	828	859	890	920	951	981
1952	2434 012	043	072	103	133	164	194	225	256	286	317	347
1953	378	409	437	468	498	529	559	590	621	651	682	712
1954	743	774	802	833	863	894	924	955	986	*016	*047	*077
1955	2435 108	139	167	198	228	259	289	320	351	381	412	442
1956	473	504	533	564	594	625	655	686	717	747	778	808
1957	839	870	898	929	959	990	*020	*051	*082	*112	*143	*173
1958	2436 204	235	263	294	324	355	385	416	447	477	508	538
1959	569	600	628	659	689	720	750	781	812	842	873	903
1960	934	965	994	*025	*055	*086	*116	*147	*178	*208	*239	*269
1961	2437 300	331	359	390	420	451	481	512	543	573	604	634
1962	665	696	724	755	785	816	846	877	908	938	969	999
1963	2438 030	061	089	120	150	181	211	242	273	303	334	364
1964	395	426	455	486	516	547	577	608	639	669	700	730
1965	761	792	820	851	881	912	942	973	*004	*034	*065	*095
1966	2439 126	157	185	216	246	277	307	338	369	399	430	460
1967	491	522	550	581	611	642	672	703	734	764	795	825
1968	856	887	916	947	977	*008	*038	*069	*100	*130	*161	*191
1969	2440 222	253	281	312	342	373	403	434	465	495	526	556
1970	587	618	646	677	707	738	768	799	830	860	891	921
1971	952	983	*011	*042	*072	*103	*133	*164	*195	*225	*256	*286
1972	2441 317	348	377	408	438	469	499	530	561	591	622	652
1973	683	714	742	773	803	834	864	895	926	956	987	*017
1974	2442 048	079	107	138	168	199	229	260	291	321	352	382
1975	413	444	472	503	533	564	594	625	656	686	717	747
1976	778	809	838	869	899	930	960	991	*022	*052	*083	*113
1977	2443 144	175	203	234	264	295	325	356	387	417	448	478
1978	509	540	568	599	629	660	690	721	752	782	813	843
1979	2443 874	905	933	964	994	*025	*055	*086	*117	*147	*178	*208

′	″	°	′	″	°	″	°	″	°
0	0.0	0.000	3	0.0	0.050	0.000	0.00000	1.800	0.00050
	3.6	01		3.6	51	036	01	836	51
	7.2	02		7.2	52	072	02	872	52
	10.8	03		10.8	53	108	03	908	53
	14.4	04		14.4	54	144	04	944	54
0	18.0	0.005	3	18.0	0.055	0.180	0.00005	1.980	0.00055
	21.6	06		21.6	56	216	06	2.016	56
	25.2	07		25.2	57	252	07	052	57
	28.8	08		28.8	58	288	08	088	58
	32.4	09		32.4	59	324	09	124	59
0	36.0	0.010	3	36.0	0.060	0.360	0.00010	2.160	0.00060
	39.6	11		39.6	61	396	11	196	61
	43.2	12		43.2	62	432	12	232	62
	46.8	13		46.8	63	468	13	268	63
	50.4	14		50.4	64	504	14	304	64
	54.0	0.015		54.0	0.065	0.540	0.00015	2.340	0.00065
0	57.6	16	3	57.6	66	576	16	376	66
1	1.2	17	4	1.2	67	612	17	412	67
	4.8	18		4.8	68	648	18	448	68
	8.4	19		8.4	69	684	19	484	69
1	12.0	0.020	4	12.0	0.070	0.720	0.00020	2.520	0.00070
	15.6	21		15.6	71	756	21	556	71
	19.2	22		19.2	72	792	22	592	72
	22.8	23		22.8	73	828	23	628	73
	26.4	24		26.4	74	864	24	664	74
1	30.0	0.025	4	30.0	0.075	0.900	0.00025	2.700	0.00075
	33.6	26		33.6	76	936	26	736	76
	37.2	27		37.2	77	0.972	27	772	77
	40.8	28		40.8	78	1.008	28	808	78
	44.4	29		44.4	79	044	29	844	79
1	48.0	0.030	4	48.0	0.080	1.080	0.00030	2.880	0.00080
	51.6	31		51.6	81	116	31	916	81
	55.2	32		55.2	82	152	32	952	82
1	58.8	33	4	58.8	83	188	33	2.988	83
2	2.4	34	5	2.4	84	224	34	3.024	84
	6.0	0.035		6.0	0.085	1.260	0.00035	060	0.00085
	9.6	36		9.6	86	296	36	096	86
	13.2	37		13.2	87	332	37	132	87
	16.8	38		16.8	88	368	38	168	88
	20.4	39		20.4	89	404	39	204	89
2	24.0	0.040	5	24.0	0.090	1.440	0.00040	3.240	0.00090
	27.6	41		27.6	91	476	41	276	91
	31.2	42		31.2	92	512	42	312	92
	34.8	43		34.8	93	548	43	348	93
	38.4	44		38.4	94	584	44	384	94
2	42.0	0.045	5	42.0	0.095	1.620	0.00045	3.420	0.00095
	45.6	46		45.6	96	656	46	456	96
	49.2	47		49.2	97	692	47	492	97
	52.8	48		52.8	98	728	48	528	98
2	56.4	49	5	56.4	99	764	49	564	99
3	0.0	0.050	6	0.0	0.100	1.800	0.00050	3.600	0.00100

δ \ φ	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
°	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
−30	4 45.4	4 38.8	4 31.8	4 24.4	4 16.5	4 8.1	3 58.9	3 48.9	3 37.9	3 25.7	3 11.8
29	4 48.6	4 42.3	4 35.6	4 28.6	4 21.1	4 13.0	4 4.3	3 54.9	3 44.5	3 33.0	3 20.1
28	4 51.7	4 45.7	4 39.3	4 32.6	4 25.5	4 17.8	4 9.6	4 0.7	3 50.9	3 40.1	3 28.0
27	4 54.7	4 49.0	4 42.9	4 36.5	4 29.8	4 22.5	4 14.7	4 6.2	3 57.0	3 46.9	3 35.5
26	4 57.7	4 52.2	4 46.5	4 40.4	4 33.9	4 27.1	4 19.7	4 11.7	4 3.0	3 53.4	3 42.8
25	5 0.6	4 55.4	4 49.9	4 44.2	4 38.0	4 31.5	4 24.5	4 16.9	4 8.7	3 59.7	3 49.7
24	5 3.5	4 58.5	4 53.3	4 47.8	4 42.0	4 35.8	4 29.2	4 22.0	4 14.3	4 5.8	3 56.5
23	5 6.3	5 1.6	4 56.6	4 51.4	4 45.9	4 40.1	4 33.8	4 27.0	4 19.7	4 11.8	4 3.0
22	5 9.0	5 4.6	4 59.9	4 55.0	4 49.7	4 44.2	4 38.3	4 31.9	4 25.0	4 17.5	4 9.3
21	5 11.7	5 7.5	5 3.1	4 58.4	4 53.5	4 48.3	4 42.7	4 36.7	4 30.2	4 23.2	4 15.4
−20	5 14.4	5 10.4	5 6.2	5 1.8	4 57.2	4 52.3	4 47.0	4 41.3	4 35.3	4 28.7	4 21.4
19	5 17.0	5 13.3	5 9.3	5 5.2	5 0.8	4 56.2	4 51.2	4 45.9	4 40.2	4 34.0	4 27.3
18	5 19.6	5 16.1	5 12.4	5 8.5	5 4.4	5 0.0	4 55.4	4 50.4	4 45.1	4 39.3	4 33.0
17	5 22.2	5 18.9	5 15.4	5 11.7	5 7.9	5 3.8	4 59.5	4 54.9	4 49.9	4 44.5	4 38.6
16	5 24.7	5 21.6	5 18.4	5 14.9	5 11.4	5 7.5	5 3.5	4 59.2	4 54.6	4 49.5	4 44.1
15	5 27.2	5 24.3	5 21.3	5 18.1	5 14.8	5 11.2	5 7.5	5 3.5	4 59.2	4 54.5	4 49.5
14	5 29.7	5 27.0	5 24.2	5 21.3	5 18.2	5 14.9	5 11.4	5 7.7	5 3.7	4 59.5	4 54.8
13	5 32.1	5 29.7	5 27.1	5 24.4	5 21.5	5 18.5	5 15.3	5 11.9	5 8.2	5 4.3	5 0.0
12	5 34.6	5 32.3	5 29.9	5 27.4	5 24.8	5 22.1	5 19.1	5 16.0	5 12.6	5 9.0	5 5.1
11	5 37.0	5 34.9	5 32.7	5 30.5	5 28.1	5 25.6	5 22.9	5 20.1	5 17.0	5 13.7	5 10.2
−10	5 39.4	5 37.5	5 35.5	5 33.5	5 31.3	5 29.1	5 26.7	5 24.1	5 21.4	5 18.4	5 15.2
9	5 41.7	5 40.1	5 38.3	5 36.5	5 34.6	5 32.5	5 30.4	5 28.1	5 25.7	5 23.0	5 20.2
8	5 44.1	5 42.6	5 41.1	5 39.5	5 37.8	5 36.0	5 34.1	5 32.1	5 29.9	5 27.6	5 25.1
7	5 46.4	5 45.2	5 43.8	5 42.4	5 41.0	5 39.4	5 37.8	5 36.0	5 34.2	5 32.2	5 30.0
6	5 48.8	5 47.7	5 46.6	5 45.4	5 44.1	5 42.8	5 41.4	5 40.0	5 38.4	5 36.7	5 34.9
5	5 51.1	5 50.2	5 49.3	5 48.3	5 47.3	5 46.2	5 45.1	5 43.9	5 42.6	5 41.2	5 39.7
4	5 53.4	5 52.7	5 52.0	5 51.2	5 50.4	5 49.6	5 48.7	5 47.8	5 46.8	5 45.7	5 44.5
3	5 55.8	5 55.2	5 54.7	5 54.1	5 53.6	5 53.0	5 52.3	5 51.6	5 50.9	5 50.1	5 49.3
2	5 58.1	5 57.7	5 57.4	5 57.1	5 56.7	5 56.3	5 55.9	5 55.5	5 55.1	5 54.6	5 54.1
− 1	6 0.4	6 0.2	6 0.1	6 0.0	5 59.8	5 59.7	5 59.5	5 59.4	5 59.2	5 59.0	5 58.9
0	6 2.7	6 2.7	6 2.8	6 2.9	6 2.9	6 3.0	6 3.1	6 3.2	6 3.4	6 3.5	6 3.6
+ 1	6 5.0	6 5.2	6 5.5	6 5.8	6 6.1	6 6.4	6 6.7	6 7.1	6 7.5	6 7.9	6 8.4
2	6 7.3	6 7.7	6 8.2	6 8.7	6 9.2	6 9.8	6 10.3	6 11.0	6 11.6	6 12.4	6 13.2
3	6 9.6	6 10.3	6 10.9	6 11.6	6 12.3	6 13.1	6 14.0	6 14.8	6 15.8	6 16.8	6 18.0
4	6 11.9	6 12.8	6 13.6	6 14.5	6 15.5	6 16.5	6 17.6	6 18.7	6 20.0	6 21.3	6 22.8
5	6 14.3	6 15.3	6 16.4	6 17.5	6 18.6	6 19.9	6 21.2	6 22.6	6 24.2	6 25.8	6 27.6
6	6 16.6	6 17.8	6 19.1	6 20.4	6 21.8	6 23.3	6 24.9	6 26.6	6 28.4	6 30.4	6 32.5
7	6 19.0	6 20.4	6 21.8	6 23.4	6 25.0	6 26.7	6 28.6	6 30.5	6 32.6	6 34.9	6 37.4
8	6 21.3	6 22.9	6 24.6	6 26.4	6 28.2	6 30.2	6 32.3	6 34.5	6 36.9	6 39.5	6 42.3
9	6 23.7	6 25.5	6 27.4	6 29.4	6 31.4	6 33.7	6 36.0	6 38.5	6 41.2	6 44.1	6 47.3
10	6 26.1	6 28.1	6 30.2	6 32.4	6 34.7	6 37.2	6 39.8	6 42.5	6 45.6	6 48.8	6 52.3
+11	6 28.5	6 30.7	6 33.0	6 35.4	6 38.0	6 40.7	6 43.6	6 46.6	6 49.9	6 53.5	6 57.4
12	6 31.0	6 33.4	6 35.9	6 38.5	6 41.3	6 44.3	6 47.4	6 50.8	6 54.4	6 58.3	7 2.5
13	6 33.4	6 36.0	6 38.8	6 41.6	6 44.7	6 47.9	6 51.3	6 54.9	6 58.9	7 3.1	7 7.8
14	6 35.9	6 38.7	6 41.7	6 44.8	6 48.0	6 51.5	6 55.2	6 59.2	7 3.4	7 8.0	7 13.1
15	6 38.4	6 41.4	6 44.6	6 47.9	6 51.5	6 55.2	6 59.2	7 3.5	7 8.1	7 13.0	7 18.5
16	6 41.0	6 44.2	6 47.6	6 51.2	6 54.9	6 58.9	7 3.2	7 7.8	7 12.7	7 18.1	7 23.9
17	6 43.5	6 47.0	6 50.6	6 54.4	6 58.5	7 2.7	7 7.3	7 12.2	7 17.5	7 23.3	7 29.5
18	6 46.1	6 49.8	6 53.7	6 57.7	7 2.0	7 6.6	7 11.5	7 16.7	7 22.4	7 28.5	7 35.3
19	6 48.8	6 52.7	6 56.8	7 1.1	7 5.7	7 10.5	7 15.7	7 21.3	7 27.4	7 33.9	7 41.1
20	6 51.5	6 55.6	6 59.9	7 4.5	7 9.4	7 14.5	7 20.1	7 26.0	7 32.4	7 39.4	7 47.1
+21	6 54.2	6 58.6	7 3.1	7 8.0	7 13.1	7 18.6	7 24.5	7 30.8	7 37.6	7 45.1	7 53.3
22	6 56.9	7 1.6	7 6.4	7 11.5	7 17.0	7 22.8	7 29.0	7 35.7	7 42.9	7 50.9	7 59.6
23	6 59.8	7 4.6	7 9.7	7 15.1	7 20.9	7 27.0	7 33.6	7 40.7	7 48.4	7 56.8	8 6.1
24	7 2.6	7 7.7	7 13.1	7 18.8	7 24.9	7 31.3	7 38.3	7 45.8	7 54.0	8 2.9	8 12.9
25	7 5.6	7 10.9	7 16.6	7 22.6	7 29.0	7 35.8	7 43.1	7 51.1	7 59.8	8 9.3	8 19.9
26	7 8.5	7 14.2	7 20.1	7 26.4	7 33.2	7 40.4	7 48.1	7 56.5	8 5.7	8 15.8	8 27.1
27	7 11.6	7 17.5	7 23.8	7 30.4	7 37.5	7 45.0	7 53.2	8 2.1	8 11.8	8 22.6	8 34.7
28	7 14.7	7 20.9	7 27.5	7 34.4	7 41.9	7 49.9	7 58.5	8 7.9	8 18.2	8 29.7	8 42.6
29	7 17.9	7 24.4	7 31.3	7 38.6	7 46.4	7 54.8	8 3.9	8 13.9	8 24.8	8 37.1	8 51.0
+30	7 21.2	7 28.0	7 35.2	7 42.9	7 51.1	7 59.9	8 9.5	8 20.1	8 31.7	8 44.8	8 59.7

δ \ φ	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
°	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m	h m
−30	3 11.8	3 4.1	2 55.8	2 46.8	2 36.9	2 25.9	2 13.5	1 59.3	1 42.4	1 21.1	0 49.7
29	3 20.1	3 12.9	3 5.3	2 57.0	2 48.0	2 38.1	2 27.1	2 14.7	2 0.4	1 43.4	1 21.9
28	3 28.0	3 21.3	3 14.2	3 6.6	2 58.3	2 49.3	2 39.4	2 28.4	2 15.9	2 1.6	1 44.5
27	3 35.5	3 29.3	3 22.7	3 15.7	3 8.0	2 59.8	2 50.8	2 40.8	2 29.8	2 17.3	2 2.9
26	3 42.8	3 37.0	3 30.8	3 24.2	3 17.2	3 9.6	3 1.4	2 52.4	2 42.4	2 31.3	2 18.8
25	3 49.7	3 44.3	3 38.6	3 32.4	3 25.9	3 18.9	3 11.3	3 3.1	2 54.1	2 44.1	2 33.0
24	3 56.5	3 51.4	3 46.0	3 40.3	3 34.3	3 27.8	3 20.8	3 13.2	3 5.0	2 56.0	2 46.0
23	4 3.0	3 58.2	3 53.2	3 47.9	3 42.3	3 36.2	3 29.8	3 22.8	3 15.3	3 7.1	2 58.0
22	4 9.3	4 4.9	4 0.2	3 55.2	3 50.0	3 44.3	3 38.4	3 31.9	3 25.0	3 17.5	3 9.3
21	4 15.4	4 11.3	4 6.9	4 2.3	3 57.4	3 52.2	3 46.6	3 40.7	3 34.3	3 27.4	3 19.9
−20	4 21.4	4 17.5	4 13.5	4 9.1	4 4.6	3 59.8	3 54.6	3 49.1	3 43.2	3 36.9	3 30.0
19	4 27.3	4 23.7	4 19.9	4 15.8	4 11.6	4 7.1	4 2.3	3 57.2	3 51.8	3 45.9	3 39.6
18	4 33.0	4 29.6	4 26.1	4 22.3	4 18.4	4 14.2	4 9.8	4 5.1	4 0.1	3 54.7	3 48.9
17	4 38.6	4 35.4	4 32.1	4 28.7	4 25.0	4 21.1	4 17.0	4 12.7	4 8.1	4 3.1	3 57.8
16	4 44.1	4 41.2	4 38.1	4 34.9	4 31.5	4 27.9	4 24.1	4 20.1	4 15.9	4 11.3	4 6.4
15	4 49.5	4 46.8	4 43.9	4 41.0	4 37.8	4 34.5	4 31.0	4 27.4	4 23.4	4 19.3	4 14.8
14	4 54.8	4 52.3	4 49.7	4 46.9	4 44.1	4 41.0	4 37.8	4 34.4	4 30.8	4 27.0	4 22.9
13	5 0.0	4 57.7	4 55.3	4 52.8	4 50.2	4 47.4	4 44.5	4 41.4	4 38.1	4 34.6	4 30.9
12	5 5.1	5 3.0	5 0.9	4 58.6	4 56.2	4 53.7	4 51.0	4 48.2	4 45.2	4 42.0	4 38.7
11	5 10.2	5 8.3	5 6.4	5 4.3	5 2.1	4 59.8	4 57.4	4 54.9	4 52.2	4 49.3	4 46.3
−10	5 15.2	5 13.5	5 11.8	5 9.9	5 7.9	5 5.9	5 3.7	5 1.5	4 59.1	4 56.5	4 53.8
9	5 20.2	5 18.7	5 17.1	5 15.5	5 13.7	5 11.9	5 10.0	5 8.0	5 5.8	5 3.6	5 1.2
8	5 25.1	5 23.8	5 22.4	5 21.0	5 19.5	5 17.9	5 16.2	5 14.4	5 12.5	5 10.6	5 8.5
7	5 30.0	5 28.9	5 27.7	5 26.4	5 25.1	5 23.8	5 22.3	5 20.8	5 19.2	5 17.5	5 15.7
6	5 34.9	5 33.9	5 32.9	5 31.8	5 30.7	5 29.6	5 28.4	5 27.1	5 25.7	5 24.3	5 22.8
5	5 39.7	5 38.9	5 38.1	5 37.2	5 36.3	5 35.4	5 34.4	5 33.4	5 32.2	5 31.1	5 29.9
4	5 44.5	5 43.9	5 43.3	5 42.6	5 41.9	5 41.2	5 40.4	5 39.6	5 38.7	5 37.8	5 36.9
3	5 49.3	5 48.9	5 48.4	5 47.9	5 47.4	5 46.9	5 46.3	5 45.8	5 45.2	5 44.5	5 43.8
2	5 54.1	5 53.8	5 53.5	5 53.3	5 52.9	5 52.6	5 52.3	5 52.0	5 51.6	5 51.2	5 50.8
− 1	5 58.9	5 58.8	5 58.7	5 58.6	5 58.4	5 58.3	5 58.2	5 58.1	5 58.0	5 57.9	5 57.7
0	6 3.6	6 3.7	6 3.8	6 3.9	6 4.0	6 4.1	6 4.2	6 4.3	6 4.4	6 4.5	6 4.7
+ 1	6 8.4	6 8.6	6 8.9	6 9.2	6 9.5	6 9.8	6 10.1	6 10.4	6 10.8	6 11.2	6 11.6
2	6 13.2	6 13.6	6 14.0	6 14.5	6 15.0	6 15.5	6 16.0	6 16.6	6 17.2	6 17.8	6 18.5
3	6 18.0	6 18.6	6 19.2	6 19.8	6 20.5	6 21.2	6 22.0	6 22.8	6 23.6	6 24.6	6 25.5
4	6 22.8	6 23.5	6 24.4	6 25.2	6 26.1	6 27.0	6 28.0	6 29.0	6 30.1	6 31.3	6 32.5
5	6 27.6	6 28.6	6 29.6	6 30.6	6 31.7	6 32.8	6 34.0	6 35.3	6 36.6	6 38.1	6 39.6
6	6 32.5	6 33.6	6 34.8	6 36.0	6 37.3	6 38.7	6 40.1	6 41.6	6 43.2	6 44.9	6 46.7
7	6 37.4	6 38.7	6 40.0	6 41.5	6 43.0	6 44.6	6 46.2	6 48.0	6 49.8	6 51.8	6 53.9
8	6 42.3	6 43.8	6 45.3	6 47.0	6 48.7	6 50.5	6 52.4	6 54.4	6 56.5	6 58.8	7 1.2
9	6 47.3	6 48.9	6 50.7	6 52.6	6 54.5	6 56.5	6 58.7	7 0.9	7 3.3	7 5.9	7 8.6
10	6 52.3	6 54.1	6 56.1	6 58.2	7 0.3	7 2.6	7 5.0	7 7.5	7 10.2	7 13.1	7 16.2
+11	6 57.4	6 59.4	7 1.6	7 3.9	7 6.3	7 8.8	7 11.4	7 14.2	7 17.2	7 20.4	7 23.8
12	7 2.5	7 4.8	7 7.2	7 9.7	7 12.3	7 15.1	7 18.0	7 21.1	7 24.3	7 27.8	7 31.5
13	7 7.8	7 10.2	7 12.8	7 15.5	7 18.4	7 21.4	7 24.6	7 28.0	7 31.6	7 35.4	7 39.5
14	7 13.1	7 15.7	7 18.6	7 21.5	7 24.6	7 27.9	7 31.4	7 35.1	7 39.0	7 43.2	7 47.7
15	7 18.5	7 21.4	7 24.4	7 27.6	7 31.0	7 34.6	7 38.3	7 42.4	7 46.6	7 51.2	7 56.1
16	7 23.9	7 27.1	7 30.4	7 33.8	7 37.5	7 41.4	7 45.4	7 49.8	7 54.4	7 59.4	8 4.7
17	7 29.5	7 32.9	7 36.5	7 40.2	7 44.1	7 48.3	7 52.7	7 57.4	8 2.5	8 7.9	8 13.7
18	7 35.3	7 38.9	7 42.7	7 46.7	7 50.9	7 55.4	8 0.2	8 5.3	8 10.8	8 16.6	8 23.0
19	7 41.1	7 45.0	7 49.1	7 53.4	7 57.9	8 2.8	8 7.9	8 13.4	8 19.4	8 25.7	8 32.6
20	7 47.1	7 51.3	7 55.6	8 0.3	8 5.2	8 10.4	8 15.9	8 21.9	8 28.3	8 35.2	8 42.8
+21	7 53.3	7 57.7	8 2.4	8 7.3	8 12.6	8 18.2	8 24.2	8 30.7	8 37.6	8 45.2	8 53.5
22	7 59.6	8 4.3	8 9.4	8 14.7	8 20.3	8 26.4	8 32.8	8 39.8	8 47.4	8 55.[illegible]	9 4.8
23	8 6.1	8 11.2	8 16.6	8 22.3	8 28.3	8 34.9	8 41.9	8 49.5	8 57.7	9 6.8	9 16.9
24	8 12.9	8 18.3	8 24.0	8 30.2	8 36.7	8 43.8	8 51.4	8 59.6	9 8.7	9 18.8	9 30.0
25	8 19.9	8 25.7	8 31.8	8 38.4	8 45.5	8 53.1	9 1.4	9 10.5	9 20.5	9 31.7	9 44.4
26	8 27.1	8 33.4	8 40.0	8 47.0	8 54.7	9 3.0	9 12.1	9 22.1	9 33.2	9 45.9	10 0.6
27	8 34.7	8 41.4	8 48.5	8 56.1	9 4.4	9 13.5	9 23.5	9 34.6	9 47.3	10 1.9	10 19.5
28	8 42.6	8 49.8	8 57.5	9 5.8	9 14.8	9 24.8	9 35.9	9 48.5	10 3.1	10 20.5	10 42.9
29	8 51.0	8 58.7	9 7.0	9 16.1	9 26.0	9 37.1	9 49.6	10 4.1	10 21.5	10 43.7	11 18.1
+30	8 59.7	9 8.1	9 17.2	9 27.1	9 38.2	9 50.7	10 5.1	10 22.3	10 44.4	11 18.5	—

Reductionstafel

für den Auf- und Untergang der Sonne

Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang.

Tag		Geographische Breite										
		+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
1938		m	m	m	m	m	m	m	m	m	m	m
Jan.	1	∓62.7	∓58.0	∓53.1	∓48.0	∓42.6	∓36.7	∓30.5	∓23.8	∓16.5	∓8.7	0.0
	11	∓58.6	∓54.1	∓49.6	∓44.7	∓39.7	∓34.2	∓28.4	∓22.1	∓15.4	∓8.0	0.0
	21	∓52.3	∓48.3	∓44.2	∓39.8	∓35.3	∓30.4	∓25.2	∓19.7	∓13.7	∓7.1	0.0
	31	∓44.5	∓41.1	∓37.5	∓33.8	∓29.9	∓25.8	∓21.3	∓16.6	∓11.6	∓6.0	0.0
Febr.	10	∓35.7	∓33.0	∓30.1	∓27.1	∓24.0	∓20.6	∓17.0	∓13.2	∓ 9.2	∓4.8	0.0
	20	∓26.4	∓24.4	∓22.2	∓20.0	∓17.7	∓15.2	∓12.5	∓ 9.7	∓ 6.7	∓3.5	0.0
März	2	∓16.8	∓15.5	∓14.1	∓12.7	∓11.2	∓ 9.6	∓ 7.9	∓ 6.1	∓ 4.2	∓2.2	0.0
	12	∓ 7.1	∓ 6.6	∓ 6.0	∓ 5.4	∓ 4.7	∓ 4.0	∓ 3.3	∓ 2.6	∓ 1.8	∓0.9	0.0
	22	± 2.6	± 2.4	± 2.2	± 2.1	± 1.8	± 1.6	± 1.3	± 1.0	± 0.7	±0.3	0.0
April	1	±12.2	±11.3	±10.3	± 9.4	± 8.3	± 7.1	± 5.9	± 4.6	± 3.2	±1.6	0.0
	11	±21.9	±20.2	±18.5	±16.7	±14.7	±12.6	±10.4	± 8.2	± 5.6	±2.9	0.0
	21	±31.4	±28.9	±26.5	±23.9	±21.0	±18.1	±15.0	±11.7	± 8.1	±4.2	0.0
Mai	1	±40.5	±37.4	±34.2	±30.9	±27.3	±23.5	±19.6	±15.2	±10.6	±5.5	0.0
	11	±49.1	±45.4	±41.5	±37.5	±33.3	±28.6	±23.8	±18.5	±12.9	±6.7	0.0
	21	±56.7	±52.6	±48.1	±43.4	±38.6	±33.2	±27.6	±21.6	±15.0	±7.8	0.0
	31	±62.9	±58.4	±53.5	±48.3	±42.9	±37.0	±30.8	±24.1	±16.8	±8.8	0.0
Juni	10	±67.1	±62.2	±57.1	±51.6	±45.8	±39.6	±33.0	±25.9	±18.0	±9.5	0.0
	20	±68.8	±63.8	±58.6	±52.9	±47.0	±40.7	±33.9	±26.6	±18.5	±9.8	0.0
	30	±67.9	±62.9	±57.8	±52.2	±46.4	±40.1	±33.4	±26.2	±18.2	±9.6	0.0
Juli	10	±64.5	±59.7	±54.8	±49.5	±44.0	±38.0	±31.6	±24.8	±17.2	±9.1	0.0
	20	±58.9	±54.5	±50.0	±45.1	±40.1	±34.6	±28.7	±22.5	±15.6	±8.2	0.0
	30	±51.7	±47.8	±43.9	±39.5	±35.1	±30.2	±25.1	±19.6	±13.6	±7.1	0.0
Aug.	9	±43.5	±40.2	±36.8	±33.1	±29.4	±25.3	±21.0	±16.4	±11.4	±5.9	0.0
	19	±34.6	±32.0	±29.2	±26.3	±23.3	±20.1	±16.7	±12.9	± 9.0	±4.7	0.0
	29	±25.3	±23.4	±21.4	±19.3	±17.0	±14.7	±12.2	± 9.4	± 6.6	±3.4	0.0
Sept.	8	±15.9	±14.6	±13.4	±12.1	±10.7	± 9.2	± 7.6	± 5.9	± 4.1	±2.1	0.0
	18	± 6.4	± 5.8	± 5.3	± 4.8	± 4.3	± 3.7	± 3.0	± 2.4	± 1.7	±0.9	0.0
	28	∓ 3.3	∓ 3.0	∓ 2.7	∓ 2.4	∓ 2.1	∓ 1.8	∓ 1.5	∓ 1.1	∓ 0.8	∓0.4	0.0
Okt.	8	∓12.9	∓11.8	∓10.7	∓ 9.7	∓ 8.5	∓ 7.3	∓ 6.0	∓ 4.7	∓ 3.2	∓1.6	0.0
	18	∓22.4	∓20.6	∓18.8	∓16.9	∓14.9	∓12.8	∓10.5	∓ 8.2	∓ 5.6	∓2.9	0.0
	28	∓31.7	∓29.2	∓26.7	∓24.0	∓21.2	∓18.2	∓15.0	∓11.7	∓ 8.1	∓4.2	0.0
Nov.	7	∓40.6	∓37.5	∓34.3	∓30.9	∓27.3	∓23.4	∓19.4	∓15.1	∓10.4	∓5.5	0.0
	17	∓48.9	∓45.2	∓41.3	∓37.3	∓32.9	∓28.3	∓23.5	∓18.3	∓12.7	∓6.7	0.0
	27	∓55.9	∓51.7	∓47.3	∓42.7	∓37.8	∓32.5	∓27.1	∓21.1	∓14.7	∓7.7	0.0
Dez.	7	∓61.1	∓56.5	∓51.7	∓46.7	∓41.4	∓35.7	∓29.7	∓23.2	∓16.1	∓8.5	0.0
	17	∓63.9	∓59.1	∓54.1	∓48.9	∓43.3	∓37.4	∓31.1	∓24.3	∓16.9	∓8.9	0.0
	27	∓63.9	∓59.1	∓54.1	∓48.9	∓43.3	∓37.4	∓31.1	∓24.3	∓16.9	∓8.9	0.0
	37	∓61.1	∓56.5	∓51.7	∓46.7	∓41.4	∓35.7	∓29.7	∓23.2	∓16.1	∓8.4	0.0

Reduktionstafel

für den Auf- und Untergang der Sonne

Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang.

Tag		Geographische Breite										
		+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
1938		m	m	m	m	m	m	m	m	m	m	m
Jan.	1	0.0	±4.7	± 9.6	±14.8	±20.5	±26.4	±32.8	±39.6	±47.0	±55.1	±63.9
	11	0.0	±4.4	± 8.9	±13.8	±18.8	±24.4	±30.2	±36.4	±43.1	±50.4	±58.3
	21	0.0	±3.8	± 7.9	±12.1	±16.6	±21.3	±26.4	±31.8	±37.5	±43.7	±50.4
	31	0.0	±3.2	± 6.6	±10.1	±13.8	±17.8	±22.0	±26.4	±31.1	±36.2	±41.6
Febr.	10	0.0	±2.5	± 5.2	± 8.0	±10.9	±14.1	±17.3	±20.7	±24.4	±28.3	±32.5
	20	0.0	±1.8	± 3.8	± 5.8	± 7.9	±10.2	±12.6	±15.0	±17.7	±20.5	±23.4
März	2	0.0	±1.2	± 2.4	± 3.7	± 5.0	± 6.4	± 7.9	± 9.4	±11.1	±12.8	±14.5
	12	0.0	±0.5	± 1.0	± 1.5	± 2.1	± 2.7	± 3.3	± 3.9	± 4.5	± 5.3	± 6.0
	22	0.0	∓0.2	∓ 0.4	∓ 0.6	∓ 0.8	∓ 1.1	∓ 1.4	∓ 1.6	∓ 1.9	∓ 2.2	∓ 2.6
April	1	0.0	∓0.9	∓ 1.8	∓ 2.7	∓ 3.8	∓ 4.8	∓ 6.0	∓ 7.2	∓ 8.4	∓ 9.8	∓11.1
	11	0.0	∓1.5	∓ 3.2	∓ 4.9	∓ 6.8	∓ 8.6	∓10.6	∓12.8	∓15.0	∓17.4	∓19.9
	21	0.0	∓2.2	∓ 4.6	∓ 7.1	∓ 9.8	∓12.5	∓15.4	∓18.5	∓21.8	∓25.2	∓29.0
Mai	1	0.0	∓3.0	∓ 6.1	∓ 9.3	∓12.8	∓16.4	∓20.2	∓24.3	∓28.6	∓33.2	∓38.2
	11	0.0	∓3.6	∓ 7.4	∓11.4	∓15.7	∓20.2	∓24.9	∓30.1	∓35.6	∓41.4	∓47.7
	21	0.0	∓4.2	∓ 8.7	∓13.4	∓18.4	∓23.8	∓29.5	∓35.7	∓42.3	∓49.4	∓57.2
	31	0.0	∓4.7	∓ 9.8	∓15.2	∓20.8	∓27.0	∓33.5	∓40.6	∓48.2	∓56.5	∓65.7
Juni	10	0.0	∓5.1	∓10.6	∓16.4	∓22.6	∓29.2	∓36.3	∓44.1	∓52.5	∓61.8	∓72.2
	20	0.0	∓5.3	∓10.9	∓16.9	∓23.3	∓30.2	∓37.5	∓45.6	∓54.4	∓64.0	∓75.1
	30	0.0	∓5.2	∓10.7	∓16.6	∓22.9	∓29.6	∓36.9	∓44.8	∓53.4	∓62.8	∓73.6
Juli	10	0.0	∓4.9	∓10.1	∓15.6	∓21.5	∓27.8	∓34.5	∓41.8	∓49.7	∓58.5	∓68.0
	20	0.0	∓4.4	∓ 9.1	∓14.0	∓19.3	∓24.9	∓30.9	∓37.3	∓44.3	∓51.8	∓60.1
	30	0.0	∓3.8	∓ 7.9	∓12.1	∓16.6	∓21.4	∓26.5	∓32.0	∓37.8	∓44.1	∓50.9
Aug.	9	0.0	∓3.2	∓ 6.5	∓10.0	∓13.8	∓17.7	∓21.9	∓26.3	∓31.0	∓36.0	∓41.4
	19	0.0	∓2.5	∓ 5.1	∓ 7.8	∓10.8	∓13.8	∓17.1	∓20.5	∓24.2	∓28.0	∓32.2
	29	0.0	∓1.8	∓ 3.7	∓ 5.7	∓ 7.8	∓10.0	∓12.3	∓14.8	∓17.4	∓20.2	∓23.1
Sept.	8	0.0	∓1.2	∓ 2.3	∓ 3.6	∓ 4.9	∓ 6.2	∓ 7.7	∓ 9.2	∓10.8	∓12.6	∓14.4
	18	0.0	∓0.5	∓ 0.9	∓ 1.5	∓ 2.0	∓ 2.5	∓ 3.1	∓ 3.7	∓ 4.4	∓ 5.1	∓ 5.8
	28	0.0	±0.2	± 0.5	± 0.6	± 0.9	± 1.2	± 1.4	± 1.7	± 2.0	± 2.3	± 2.6
Okt.	8	0.0	±0.9	± 1.8	± 2.8	± 3.8	± 4.9	± 6.0	± 7.1	± 8.4	± 9.7	±11.0
	18	0.0	±1.6	± 3.2	± 4.9	± 6.7	± 8.6	±10.5	±12.6	±14.9	±17.2	±19.7
	28	0.0	±2.2	± 4.6	± 7.0	± 9.6	±12.4	±15.2	±18.2	±21.5	±24.8	±28.5
Nov.	7	0.0	±2.9	± 6.0	± 9.1	±12.6	±16.1	±19.9	±23.8	±28.1	±32.6	±37.6
	17	0.0	±3.6	± 7.3	±11.2	±15.4	±19.7	±24.4	±29.4	±34.7	±40.3	±46.5
	27	0.0	±4.1	± 8.4	±13.1	±17.9	±23.0	±28.5	±34.4	±40.7	±47.5	±54.9
Dez.	7	0.0	±4.6	± 9.3	±14.5	±19.8	±25.6	±31.8	±38.3	±45.5	±53.2	±61.6
	17	0.0	±4.8	± 9.8	±15.2	±20.9	±27.0	±33.5	±40.5	±48.2	±56.4	±65.6
	27	0.0	±4.8	± 9.8	±15.2	±20.9	±27.0	±33.5	±40.5	±48.2	±56.4	±65.6
	37	0.0	±4.6	± 9.3	±14.4	±19.8	±25.6	±31.8	±38.3	±45.4	±53.2	±61.6

Reduktionstafel

für den Auf- und Untergang des Mondes

Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang.

t *)	Geographische Breite										
	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
h m	m	m	m	m	m	m	m	m	m	m	m
3 20	∓94.6	∓87.9	∓80.9	∓73.4	∓65.5	∓56.9	∓47.6	∓37.5	∓26.4	∓14.0	0.0
3 30	∓88.5	∓82.2	∓75.6	∓68.5	∓61.0	∓52.9	∓44.2	∓34.8	∓24.4	∓12.9	0.0
3 40	∓82.5	∓76.5	∓70.3	∓63.7	∓56.6	∓49.1	∓41.0	∓32.2	∓22.5	∓11.9	0.0
3 50	∓76.6	∓71.0	∓65.2	∓59.0	∓52.4	∓45.3	∓37.8	∓29.6	∓20.7	∓10.9	0.0
4 0	∓70.8	∓65.6	∓60.1	∓54.4	∓48.2	∓41.7	∓34.7	∓27.2	∓18.9	∓ 9.9	0.0
4 10	∓65.1	∓60.3	∓55.2	∓49.9	∓44.2	∓38.2	∓31.7	∓24.8	∓17.3	∓ 9.0	0.0
4 20	∓59.5	∓55.0	∓50.3	∓45.5	∓40.3	∓34.8	∓28.9	∓22.5	∓15.7	∓ 8.2	0.0
4 30	∓54.0	∓49.9	∓45.6	∓41.2	∓36.5	∓31.4	∓26.1	∓20.4	∓14.1	∓ 7.4	0.0
4 40	∓48.4	∓44.8	∓40.9	∓36.9	∓32.7	∓28.2	∓23.3	∓18.2	∓12.6	∓ 6.6	0.0
4 50	∓43.0	∓39.8	∓36.4	∓32.7	∓29.0	∓24.9	∓20.7	∓16.1	∓11.2	∓ 5.8	0.0
5 0	∓37.7	∓34.8	∓31.8	∓28.6	∓25.3	∓21.8	∓18.1	∓14.1	∓ 9.8	∓ 5.0	0.0
5 10	∓32.4	∓29.9	∓27.3	∓24.6	∓21.7	∓18.7	∓15.5	∓12.1	∓ 8.4	∓ 4.3	0.0
5 20	∓27.1	∓25.0	∓22.8	∓20.6	∓18.2	∓15.6	∓12.9	∓10.1	∓ 7.0	∓ 3.6	0.0
5 30	∓21.9	∓20.2	∓18.4	∓16.6	∓14.7	∓12.6	∓10.4	∓ 8.1	∓ 5.6	∓ 2.9	0.0
5 40	∓16.7	∓15.4	∓14.0	∓12.6	∓11.2	∓ 9.6	∓ 7.9	∓ 6.2	∓ 4.3	∓ 2.2	0.0
5 50	∓11.5	∓10.6	∓ 9.7	∓ 8.7	∓ 7.7	∓ 6.6	∓ 5.5	∓ 4.2	∓ 2.9	∓ 1.5	0.0
6 0	∓ 6.4	∓ 5.8	∓ 5.4	∓ 4.8	∓ 4.2	∓ 3.6	∓ 3.0	∓ 2.3	∓ 1.6	∓ 0.9	0.0
6 10	∓ 1.2	∓ 1.1	∓ 1.0	∓ 0.9	∓ 0.8	∓ 0.7	∓ 0.6	∓ 0.4	∓ 0.3	∓ 0.2	0.0
6 20	± 4.0	± 3.7	± 3.4	± 3.0	± 2.6	± 2.3	± 1.9	± 1.5	± 1.0	± 0.5	0.0
6 30	± 9.1	± 8.4	± 7.7	± 6.9	± 6.1	± 5.3	± 4.4	± 3.4	± 2.4	± 1.2	0.0
6 40	±14.3	±13.2	±12.0	±10.8	± 9.6	± 8.2	± 6.8	± 5.3	± 3.7	± 1.9	0.0
6 50	±19.5	±18.0	±16.4	±14.8	±13.1	±11.2	± 9.3	± 7.2	± 5.0	± 2.6	0.0
7 0	±24.7	±22.8	±20.9	±18.8	±16.6	±14.2	±11.8	± 9.1	± 6.3	± 3.3	0.0
7 10	±30.0	±27.7	±25.3	±22.8	±20.1	±17.3	±14.3	±11.1	± 7.7	± 4.0	0.0
7 20	±35.3	±32.6	±29.7	±26.8	±23.7	±20.3	±16.8	±13.1	± 9.1	± 4.7	0.0
7 30	±40.6	±37.5	±34.3	±30.9	±27.3	±23.4	±19.4	±15.1	±10.5	± 5.5	0.0
7 40	±45.9	±42.5	±38.9	±35.0	±31.0	±26.6	±22.1	±17.2	±12.0	± 6.2	0.0
7 50	±51.4	±47.6	±43.5	±39.2	±34.7	±29.9	±24.8	±19.3	±13.5	± 7.0	0.0
8 0	±56.9	±52.7	±48.2	±43.5	±38.5	±33.2	±27.6	±21.5	±15.0	± 7.8	0.0
8 10	±62.5	±57.9	±53.0	±47.9	±42.4	±36.6	±30.4	±23.8	±16.6	± 8.6	0.0
8 20	±68.2	±63.2	±57.9	±52.3	±46.4	±40.1	±33.3	±26.1	±18.2	± 9.5	0.0
8 30	±74.0	±68.5	±62.9	±56.9	±50.5	±43.7	±36.4	±28.5	±19.8	±10.5	0.0
8 40	±79.8	±74.0	±67.9	±61.5	±54.7	±47.3	±39.5	±30.9	±21.6	±11.4	0.0
8 50	±85.8	±79.6	±73.1	±66.3	±59.0	±51.1	±42.7	±33.5	±23.5	±12.5	0.0
9 0	±91.9	±85.3	±78.4	±71.2	±63.4	±55.0	±46.0	±36.3	±25.5	±13.5	0.0

*) *t* ist beim Aufgang der Zeitunterschied zwischen Aufgang und Kulmination, beim Untergang der Zeitunterschied zwischen Kulmination und Untergang.

Reduktionstafel

für den Auf- und Untergang des Mondes

Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang.

t*)	Geographische Breite										
	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
h m	m	m	m	m	m	m	m	m	m	m	m
3 20	0.0	±7.7	±16.1	±25.2	±35.1	±46.1	±58.4	±72.5	±89.1	±109.7	±138.1
3 30	0.0	±7.1	±14.7	±22.9	±31.8	±41.6	±52.4	±64.5	±78.3	± 94.5	±114.3
3 40	0.0	±6.5	±13.4	±20.9	±28.9	±37.6	±47.2	±57.7	±69.4	± 82.7	± 98.2
3 50	0.0	±5.9	±12.2	±19.0	±26.2	±34.0	±42.5	±51.7	±61.9	± 73.3	± 86.1
4 0	0.0	±5.4	±11.1	±17.2	±23.7	±30.8	±38.2	±46.3	±55.2	± 65.0	± 76.0
4 10	0.0	±4.9	±10.1	±15.6	±21.4	±27.7	±34.4	±41.6	±49.4	± 57.9	± 67.3
4 20	0.0	±4.5	± 9.1	±14.0	±19.2	±24.8	±30.8	±37.2	±44.0	± 51.5	± 59.6
4 30	0.0	±4.0	± 8.1	±12.5	±17.2	±22.2	±27.5	±33.1	±39.1	± 45.7	± 52.7
4 40	0.0	±3.5	± 7.3	±11.2	±15.3	±19.7	±24.3	±29.3	±34.5	± 40.2	± 46.3
4 50	0.0	±3.1	± 6.4	± 9.8	±13.4	±17.3	±21.4	±25.6	±30.2	± 35.1	± 40.4
5 0	0.0	±2.7	± 5.5	± 8.5	±11.6	±15.0	±18.5	±22.2	±26.1	± 30.3	± 34.8
5 10	0.0	±2.3	± 4.7	± 7.2	±10.0	±12.8	±15.7	±18.9	±22.2	± 25.7	± 29.5
5 20	0.0	±2.0	± 3.9	± 6.0	± 8.3	±10.7	±13.1	±15.7	±18.4	± 21.3	± 24.4
5 30	0.0	±1.6	± 3.2	± 4.8	± 6.7	± 8.5	±10.5	±12.6	±14.8	± 17.1	± 19.6
5 40	0.0	±1.2	± 2.4	± 3.7	± 5.0	± 6.5	± 7.9	± 9.5	±11.2	± 13.0	± 14.8
5 50	0.0	±0.8	± 1.7	± 2.6	± 3.4	± 4.4	± 5.5	± 6.5	± 7.7	± 8.9	± 10.2
6 0	0.0	±0.5	± 0.9	± 1.4	± 1.9	± 2.4	± 3.0	± 3.6	± 4.2	± 4.9	± 5.6
6 10	0.0	±0.1	± 0.2	± 0.2	± 0.4	± 0.5	± 0.6	± 0.7	± 0.8	± 0.9	± 1.1
6 20	0.0	∓0.3	∓ 0.6	∓ 0.9	∓ 1.2	∓ 1.5	∓ 1.9	∓ 2.3	∓ 2.6	∓ 3.0	∓ 3.5
6 30	0.0	∓0.6	∓ 1.3	∓ 2.0	∓ 2.7	∓ 3.5	∓ 4.3	∓ 5.2	∓ 6.0	∓ 7.0	∓ 8.0
6 40	0.0	∓1.0	∓ 2.1	∓ 3.1	∓ 4.3	∓ 5.5	∓ 6.8	∓ 8.1	∓ 9.5	∓ 11.0	∓ 12.6
6 50	0.0	∓1.3	∓ 2.9	∓ 4.3	∓ 5.9	∓ 7.5	∓ 9.4	∓11.2	∓13.1	∓ 15.1	∓ 17.3
7 0	0.0	∓1.7	∓ 3.6	∓ 5.5	∓ 7.5	∓ 9.6	∓11.9	∓14.3	∓16.7	∓ 19.3	∓ 22.2
7 10	0.0	∓2.1	∓ 4.4	∓ 6.7	∓ 9.2	∓11.7	∓14.5	∓17.4	∓20.4	∓ 23.7	∓ 27.1
7 20	0.0	∓2.5	∓ 5.1	∓ 7.9	∓10.8	∓13.8	∓17.1	∓20.6	∓24.2	∓ 28.1	∓ 32.3
7 30	0.0	∓2.9	∓ 6.0	∓ 9.2	∓12.6	∓16.1	∓19.9	∓24.0	∓28.2	∓ 32.8	∓ 37.7
7 40	0.0	∓3.3	∓ 6.9	∓10.6	∓14.4	∓18.5	∓22.9	∓27.5	∓32.4	∓ 37.8	∓ 43.4
7 50	0.0	∓3.8	∓ 7.7	∓12.0	∓16.3	∓21.0	∓25.9	∓31.3	∓36.9	∓ 43.0	∓ 49.6
8 0	0.0	∓4.2	∓ 8.7	∓13.4	∓18.3	∓23.7	∓29.2	∓35.3	∓41.7	∓ 48.7	∓ 56.3
8 10	0.0	∓4.7	∓ 9.6	∓14.9	∓20.4	∓26.4	∓32.6	∓39.5	∓46.8	∓ 54.8	∓ 63.5
8 20	0.0	∓5.2	∓10.6	∓16.4	∓22.6	∓29.2	∓36.3	∓44.0	∓52.3	∓ 61.5	∓ 71.6
8 30	0.0	∓5.7	∓11.7	∓18.1	∓25.0	∓32.4	∓40.4	∓49.1	∓58.6	∓ 69.1	∓ 81.0
8 40	0.0	∓6.3	∓12.9	∓19.9	∓27.6	∓35.8	∓44.9	∓54.9	∓65.7	∓ 77.9	∓ 92.1
8 50	0.0	∓6.8	∓14.1	∓21.9	∓30.5	∓39.7	∓49.8	∓61.2	∓73.8	∓ 88.5	∓106.1
9 0	0.0	∓7.4	∓15.4	∓24.1	∓33.7	∓44.1	∓55.3	∓68.4	∓83.6	∓101.4	∓125.9

*) *t* ist beim Aufgang der Zeitunterschied zwischen Aufgang und Kulmination, beim Untergang der Zeitunterschied zwischen Kulmination und Untergang.

Hilfstafeln

zur Berechnung der optischen Mondlibration

λ−☊	Δλ	a	B	λ−☊	λ−☊	Δλ	a	B	λ−☊
°	′		° ′	°	°	′		° ′	°
0	+0.0+	−0.0269+	−0 0.0+	180	45	+0.6+	−0.0190+	−1 5.3+	225
1	0.0	268	0 1.6	181	46	0.6	187	1 6.4	226
2	0.0	268	0 3.2	182	47	0.6	183	1 7.5	227
3	0.1	268	0 4.8	183	48	0.6	180	1 8.6	228
4	0.1	268	0 6.4	184	49	0.6	176	1 9.7	229
5	+0.1+	−0.0268+	−0 8.0+	185	50	+0.6+	−0.0173+	−1 10.7+	230
6	0.1	267	0 9.7	186	51	0.6	169	1 11.8	231
7	0.1	267	0 11.3	187	52	0.6	165	1 12.8	232
8	0.2	266	0 12.9	188	53	0.6	162	1 13.8	233
9	0.2	265	0 14.4	189	54	0.6	158	1 14.7	234
10	+0.2+	−0.0264+	−0 16.0+	190	55	+0.6+	−0.0154+	−1 15.6+	235
11	0.2	264	0 17.6	191	56	0.6	150	1 16.5	236
12	0.2	263	0 19.2	192	57	0.6	146	1 17.4	237
13	0.3	262	0 20.8	193	58	0.6	142	1 18.3	238
14	0.3	261	0 22.3	194	59	0.5	138	1 19.2	239
15	+0.3+	−0.0259+	−0 23.9+	195	60	+0.5+	−0.0134+	−1 20.0+	240
16	0.3	258	0 25.5	196	61	0.5	130	1 20.8	241
17	0.3	257	0 27.0	197	62	0.5	126	1 21.5	242
18	0.4	255	0 28.5	198	63	0.5	122	1 22.3	243
19	0.4	254	0 30.1	199	64	0.5	118	1 23.0	244
20	+0.4+	−0.0252+	−0 31.6+	200	65	+0.5+	−0.0114+	−1 23.7+	245
21	0.4	251	0 33.1	201	66	0.5	109	1 24.4	246
22	0.4	249	0 34.6	202	67	0.4	105	1 25.0	247
23	0.4	247	0 36.1	203	68	0.4	101	1 25.6	248
24	0.5	245	0 37.6	204	69	0.4	096	1 26.2	249
25	+0.5+	−0.0243+	−0 39.0+	205	70	+0.4+	−0.0092+	−1 26.8+	250
26	0.5	241	0 40.5	206	71	0.4	87	1 27.3	251
27	0.5	239	0 41.9	207	72	0.4	83	1 27.8	252
28	0.5	237	0 43.4	208	73	0.3	79	1 28.3	253
29	0.5	235	0 44.8	209	74	0.3	74	1 28.8	254
30	+0.5+	−0.0233+	−0 46.2+	210	75	+0.3+	−0.0070+	−1 29.2+	255
31	0.5	230	0 47.6	211	76	0.3	65	1 29.6	256
32	0.6	228	0 48.9	212	77	0.3	60	1 30.0	257
33	0.6	225	0 50.3	213	78	0.2	56	1 30.3	258
34	0.6	223	0 51.6	214	79	0.2	51	1 30.6	259
35	+0.6+	−0.0220+	−0 53.0+	215	80	+0.2+	−0.0047+	−1 30.9+	260
36	0.6	217	0 54.3	216	81	0.2	42	1 31.2	261
37	0.6	214	0 55.6	217	82	0.2	37	1 31.4	262
38	0.6	212	0 56.9	218	83	0.1	33	1 31.6	263
39	0.6	209	0 58.1	219	84	0.1	28	1 31.8	264
40	+0.6+	−0.0206+	−0 59.4+	220	85	+0.1+	−0.0023+	−1 32.0+	265
41	0.6	203	1 0.6	221	86	0.1	19	1 32.1	266
42	0.6	200	1 1.8	222	87	0.1	14	1 32.2	267
43	0.6	196	1 3.0	223	88	0.0	09	1 32.3	268
44	0.6	193	1 4.1	224	89	0.0	05	1 32.3	269
45	+0.6+	−0.0190+	−1 5.3+	225	90	+0.0+	−0.0000+	−1 32.3+	270

$$l' = \lambda + \Delta\lambda - a(B - \beta) - L_{☾}; \quad b' = B - \beta$$

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite.

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

$L_{☾}$ = Mittlere Länge des Mondes, ☊ = Mondknoten.

Hilfstafeln

zur Berechnung der optischen Mondlibration

λ−☊	Δλ	a	B	λ−☊	λ−☊	Δλ	a	B	λ−☊
°	′		° ′	°	°	′		° ′	°
90	−0.0−	+0.0000−	−1 32.3+	270	135	−0.6−	+0.0190−	−1 5.3+	315
91	0.0	05	1 32.3	271	136	0.6	193	1 4.1	316
92	0.0	09	1 32.3	272	137	0.6	196	1 3.0	317
93	0.1	14	1 32.2	273	138	0.6	200	1 1.8	318
94	0.1	19	1 32.1	274	139	0.6	203	1 0.6	319
95	−0.1−	+0.0023−	−1 32.0+	275	140	−0.6−	+0.0206−	−0 59.4+	320
96	0.1	28	1 31.8	276	141	0.6	209	0 58.1	321
97	0.1	33	1 31.6	277	142	0.6	212	0 56.9	322
98	0.2	37	1 31.4	278	143	0.6	214	0 55.6	323
99	0.2	42	1 31.2	279	144	0.6	217	0 54.3	324
100	−0.2−	+0.0047−	−1 30.9+	280	145	−0.6−	+0.0220−	−0 53.0+	325
101	0.2	51	1 30.6	281	146	0.6	223	0 51.6	326
102	0.2	56	1 30.3	282	147	0.6	225	0 50.3	327
103	0.3	60	1 30.0	283	148	0.6	228	0 48.9	328
104	0.3	65	1 29.6	284	149	0.5	230	0 47.6	329
105	−0.3−	+0.0070−	−1 29.2+	285	150	−0.5−	+0.0233−	−0 46.2+	330
106	0.3	74	1 28.8	286	151	0.5	235	0 44.8	331
107	0.3	79	1 28.3	287	152	0.5	237	0 43.4	332
108	0.4	83	1 27.8	288	153	0.5	239	0 41.9	333
109	0.4	87	1 27.3	289	154	0.5	241	0 40.5	334
110	−0.4−	+0.0092−	−1 26.8+	290	155	−0.5−	+0.0243−	−0 39.0+	335
111	0.4	096	1 26.2	291	156	0.5	245	0 37.6	336
112	0.4	101	1 25.6	292	157	0.4	247	0 36.1	337
113	0.4	105	1 25.0	293	158	0.4	249	0 34.6	338
114	0.5	109	1 24.4	294	159	0.4	251	0 33.1	339
115	−0.5−	+0.0114−	−1 23.7+	295	160	−0.4−	+0.0252−	−0 31.6+	340
116	0.5	118	1 23.0	296	161	0.4	254	0 30.1	341
117	0.5	122	1 22.3	297	162	0.4	255	0 28.5	342
118	0.5	126	1 21.5	298	163	0.3	257	0 27.0	343
119	0.5	130	1 20.8	299	164	0.3	258	0 25.5	344
120	−0.5−	+0.0134−	−1 20.0+	300	165	−0.3−	+0.0259−	−0 23.9+	345
121	0.5	138	1 19.2	301	166	0.3	261	0 22.3	346
122	0.6	142	1 18.3	302	167	0.3	262	0 20.8	347
123	0.6	146	1 17.4	303	168	0.2	263	0 19.2	348
124	0.6	150	1 16.5	304	169	0.2	264	0 17.6	349
125	−0.6−	+0.0154−	−1 15.6+	305	170	−0.2−	+0.0264−	−0 16.0+	350
126	0.6	158	1 14.7	306	171	0.2	265	0 14.4	351
127	0.6	162	1 13.8	307	172	0.2	266	0 12.9	352
128	0.6	165	1 12.8	308	173	0.1	267	0 11.3	353
129	0.6	169	1 11.8	309	174	0.1	267	0 9.7	354
130	−0.6−	+0.0173−	−1 10.7+	310	175	−0.1−	+0.0268−	−0 8.0+	355
131	0.6	176	1 9.7	311	176	0.1	268	0 6.4	356
132	0.6	180	1 8.6	312	177	0.1	268	0 4.8	357
133	0.6	183	1 7.5	313	178	0.0	268	0 3.2	358
134	0.6	187	1 6.4	314	179	0.0	268	0 1.6	359
135	−0.6−	+0.0190−	−1 5.3+	315	180	−0.0−	+0.0269−	−0 0.0+	360

$$l' = \lambda + \Delta\lambda - a(B-\beta) - L_{☾}; \quad b' = B - \beta$$

l', b' = Optische Libration der Mondmitte in selenographischer Länge und Breite.

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

$L_{☾}$ = Mittlere Länge des Mondes, ☊ = Mondknoten.

Hilfsgrößen

zur Berechnung der geozentrischen Koordinaten

$\rho \sin \varphi' = s \sin \varphi; \qquad \rho \cos \varphi' = c \cos \varphi$

φ	log s		log c		φ	log s		log c	
± 0°	9.9970705	4	0.0000000	4	±40°	9.9976745	252	0.0006040	252
1	.9970709	14	.0000004	14	41	.9976997	254	.0006292	254
2	.9970723	22	.0000018	22	42	.9977251	255	.0006546	255
3	.9970745	31	.0000040	31	43	.9977506	255	.0006801	255
4	.9970776	40	.0000071	40	44	.9977761	255	.0007056	255
5	9.9970816	49	0.0000111	49	45	9.9978016	256	0.0007311	256
6	.9970865	57	.0000160	57	46	.9978272	255	.0007567	255
7	.9970922	66	.0000217	66	47	.9978527	255	.0007822	255
8	.9970988	74	.0000283	74	48	.9978782	254	.0008077	254
9	.9971062	83	.0000357	83	49	.9979036	252	.0008331	252
10	9.9971145	92	0.0000440	92	50	9.9979288	252	0.0008583	252
11	.9971237	99	.0000532	99	51	.9979540	249	.0008835	249
12	.9971336	108	.0000631	108	52	.9979789	247	.0009084	247
13	.9971444	116	.0000739	116	53	.9980036	245	.0009331	245
14	.9971560	123	.0000855	123	54	.9980281	242	.0009576	242
15	9.9971683	131	0.0000978	131	55	9.9980523	239	0.0009818	239
16	.9971814	139	.0001109	139	56	.9980762	235	.0010057	235
17	.9971953	146	.0001248	146	57	.9980997	232	.0010292	232
18	.9972099	154	.0001394	154	58	.9981229	228	.0010524	228
19	.9972253	160	.0001548	160	59	.9981457	224	.0010752	224
20	9.9972413	168	0.0001708	168	60	9.9981681	220	0.0010976	220
21	.9972581	174	.0001876	174	61	.9981901	215	.0011196	215
22	.9972755	180	.0002050	180	62	.9982116	209	.0011411	209
23	.9972935	187	.0002230	187	63	.9982325	205	.0011620	205
24	.9973122	192	.0002417	192	64	.9982530	199	.0011825	199
25	9.9973314	198	0.0002609	198	65	9.9982729	193	0.0012024	193
26	.9973512	204	.0002807	204	66	.9982922	188	.0012217	188
27	.9973716	209	.0003011	209	67	.9983110	181	.0012405	181
28	.9973925	214	.0003220	214	68	.9983291	175	.0012586	175
29	.9974139	219	.0003434	219	69	.9983466	168	.0012761	168
30	9.9974358	223	0.0003653	223	70	9.9983634	161	0.0012929	161
31	.9974581	227	.0003876	227	71	.9983795	154	.0013090	154
32	.9974808	232	.0004103	232	72	.9983949	147	.0013244	147
33	.9975040	235	.0004335	235	73	.9984096	140	.0013391	140
34	.9975275	238	.0004570	238	74	.9984236	132	.0013531	132
35	9.9975513	241	0.0004808	241	75	9.9984368	124	0.0013663	124
36	.9975754	245	.0005049	245	76	.9984492	117	.0013787	117
37	.9975999	246	.0005294	246	77	.9984609	108	.0013904	108
38	.9976245	249	.0005540	249	78	.9984717	100	.0014012	100
39	.9976494	251	.0005789	251	79	.9984817	92	.0014112	92
40	9.9976745		0.0006040		80	9.9984909		0.0014204	

Name	Seehöhe	Geogr. Breite	Länge von Greenwich (+ westlich, − östlich)	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Abbadia	69	+43 22 52.2	+ 0 7 0.1	+ 1.15	+43 11 17.8	9.999317
Abo	—	+60 26 56.8	− 1 29 6.30	− 14.64	+60 16 58.8	9.998894
Adelaide	41	−34 55 35.1	− 9 14 19.90	− 91.06	−34 44 42.7	9.999526
Albany (Neue Sternw.)[1]	40	+42 39 12.8	+ 4 55 7.12	+ 48.48	+42 27 39.7	9.999334
Algier (Neue Sternw.)[2]	345	+36 48 4.8	− 0 12 8.47	− 1.99	+36 36 58.1	9.999497
Allegheny (Neue Sternw.)	370	+40 28 58.1	+ 5 20 5.39	+ 52.59	+40 17 31.4	9.999411
Allegheny (Alte Sternw.)	349	+40 27 41.6	+ 5 20 2.97	+ 52.58	+40 16 15.0	9.999411
Amherst (Neue Sternw.)	110	+42 21 56.5	+ 4 50 5.98	+ 47.66	+42 10 24.0	9.999346
Amherst (Alte Sternw.)	122	+42 22 17.1	+ 4 50 4.72	+ 47.66	+42 10 44.6	9.999347
Ann Arbor	282	+42 16 48.7	+ 5 34 55.27	+ 55.02	+42 5 16.4	9.999360
Arcetri Zentr. d. Sternw.[3]	184	+43 45 14.4	− 0 45 1.30	− 7.39	+43 33 39.5	9.999316
Arequipa[4]	2451	−16 22 28.0	+ 4 46 11.73	+ 47.02	−16 16 12.7	0.000052
Armagh	64	+54 21 11	+ 0 26 35.48	+ 4.37	+54 10 11.4	9.999041
Athen	110	+37 58 15.5	− 1 34 52.2	− 15.58	+37 47 1.2	9.999456
Bamberg (Remeis-Sternw.)	288	+49 53 6.0	− 0 43 33.57	− 7.15	+49 41 40.0	9.999167
Barcelona[5]	415	+41 24 59.3	− 0 8 30.2	− 1.41	+41 13 29.4	9.999391
Belgrad	250	+44 48 8	− 1 22 3.8	− 13.48	+44 36 32	9.999294
Beloit	245	+42 30 8.4	+ 5 56 7.4	+ 58.51	+42 18 35.6	9.999352
Bergedorf Mer.-Kr.	41	+53 28 46.9	− 0 40 57.74	− 6.73	+53 17 40.8	9.999060
Berkeley	94	+37 52 23.5	+ 8 9 2.80	+ 80.34	+37 41 9.8	9.999458
Berlin-Babelsberg[6]	82	+52 24 24.2	− 0 52 25.49	− 8.61	+52 13 11.1	9.999089
Berlin (Urania)[7]	47	+52 31 30.7	− 0 53 27.40	− 8.78	+52 20 18.3	9.999084
Bern	573	+46 57 8.7	− 0 29 45.55	− 4.89	+46 45 34.5	9.999261
Besançon	312	+47 14 59.0	− 0 23 57.1	− 3.93	+47 3 25.3	9.999236
Blaca	280	+43 17 37	− 1 6 8.0	− 10.86	+43 6 3	9.999334
Bloemfontein Filiale d. Detroit Obs.	1490	−29 5 45	− 1 44 57	− 17.24	−28 55 55	9.999758
Bloemfontein Boyden Stat. d. Harv. Obs.	1379	−29 12	− 1 45 57	− 17.40	−29 2	9.999748
Bogota	2640	+ 4 35 55.2	+ 4 56 19.51	+ 48.68	+ 4 34 4.4	0.000111
Bologna Zentr. d. Sternw.	84	+44 29 52.8	− 0 45 24.48	− 7.46	+44 18 17.3	9.999290
Bombay (Colaba)	19	+18 53 36.2	− 4 51 15.60	− 47.85	+18 46 31.1	9.999849
Bonn Zentr. d. Sternw.	62	+50 43 45.0	− 0 28 23.18	− 4.66	+50 32 22.7	9.999130
Bordeaux (Floirac)	73	+44 50 7.2	+ 0 2 6.56	+ 0.35	+44 38 31.6	9.999281
Boston (University)[8]	31	+42 20 58	+ 4 44 19.1	+ 46.71	+42 9 25.6	9.999341
Bothkamp[9]	32	+54 12 9.6	− 0 40 31.2	− 6.65	+54 1 8.8	9.999042
Breslau Zentr. d. Sternw.	147	+51 6 56.5	− 1 8 8.72	− 11.19	+50 55 36.1	9.999126
Breslau Neue Sternw.	117	+51 6 41	− 1 8 21.19	− 11.23	+50 55 20.6	9.999130
Brisbane	51	−27 28 23.0	−10 12 6.48	−100.55	−27 18 54.6	9.999694
Brüssel (Alte Sternw.) Pass. Instr.	56	+50 51 10.7	− 0 17 28.71	− 2.87	+50 39 49.0	9.999126
Brüssel (Uccle) Mer.-Kr.	105	+50 47 54.6	− 0 17 26.05	− 2.86	+50 36 32.7	9.999131
Budapest Univ.-Sternw.	110	+47 29 34.7	− 1 16 15.4	− 12.53	+47 18 1.5	9.999215

[1]) Dudley Observatory, seit Juni 1893. Alte Sternwarte 37″0 nördlich, 7s10 östlich. — [2]) Alte Sternwarte 3″8 südlich, 8s östlich. — [3]) Seit Oktober 1872, früher in Florenz. — [4]) 1927 geschlossen und nach Bloemfontein verlegt. — [5]) J. Comas Solá. — [6]) Die Koordinaten beziehen sich auf die Mitte der großen Kuppel, in der der große Refraktor aufgestellt ist. Die frühere Sternwarte in Berlin (seit 1835) lag 5′ 52″5 nördlich und 1m 9s31 östlich. — [7]) Übungssternwarte der Universität. — [8]) Die alte Sternwarte lag 4s1 östlich, 34″5 nördlich. — [9]) Herr von Bülow.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich − östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Budapest[1])	110	+47 28 49	−1 16 13.7	−12.53	+47 17 16	9.999215
Bukarest (Mil. Geogr. Inst.)	85	+44 24 34.2	−1 44 27.01	−17.16	+44 12 58.7	9.999292
Cambridge Engl. . .	28	+52 12 51.6	−0 0 22.75	− 0.06	+52 1 37.3	9.999090
Cambridge Mass.[2]) . .	24	+42 22 47.6	+4 44 31.05	+46.74	+42 11 15.1	9.999340
Cap d. gut. Hoffnung	10	−33 56 6.8	−1 13 54.60	−12.14	−33 45 23.2	9.999547
Caracas (Observ. Cajigal) .	1042	+10 30 24.3	+4 27 42.61	+43.98	+10 26 15.6	0.000023
Castel Gandolfo . .	—	+41 44 48	−0 50 36.4	− 8.31	+41 33 17	9.999354
Catania.	47	+37 30 13.3	−1 0 20.60	− 9.91	+37 19 1.9	9.999466
Charkow	139	+50 0 9.9	−2 24 55.72	−23.81	+49 48 44.4	9.999153
Charlottenburg, Techn. Hochsch.	60	+52 30 48.7	−0 53 20.5	− 8.76	+52 19 36.2	9.999085
Charlottesville[3]) . . .	259	+38 2 1.2	+5 14 5.33	+51.60	+37 50 46.5	9.999464
Christiania (Oslo) Mer.-Kr.	25	+59 54 43.7	−0 42 53.51	− 7.04	+59 44 39.2	9.998908
Cincinnati (Alte Sternw.) .	—	+39 6 26.5	+5 37 59.09	+55.52	+38 55 6.0	9.999421
Cincinnati (Neue Sternw.)[4])	247	+39 8 19.8	+5 37 41.40	+55.47	+38 56 59.1	9.999437
Cleveland (Case Obs.) . .	215	+41 30 14.5	+5 26 25.86	+53.63	+41 18 44.3	9.999375
Coimbra	99	+40 12 24.5	+0 33 43.1	+ 5.54	+40 0 58.9	9.999400
Columbia Missouri[5]) .	225	+38 56 12	+6 9 18.37	+60.67	+38 44 52.3	9.999442
Cordoba	434	−31 25 15.5	+4 16 47.16	+42.18	−31 14 57.5	9.999635
Danzig (Naturf. Ges.) . .	30	+54 21 18.0	−1 14 39.6	−12.26	+54 10 18.4	9.999036
Danzig (Städt. Sternw.) .	30	+54 21 37.9	−1 14 36.5	−12.26	+54 10 38.3	9.999036
Delaware (Perkins Obs.) .	270	+40 15 4	+5 32 13.33	+54.58	+40 3 38	9.999410
Denver[6])	1644	+39 40 36.4	+6 59 47.72	+68.96	+39 29 13.1	9.999519
Dorpat (Tartu, Jurjew) Mer.-Kr. .	67	+58 22 47.2	−1 46 53.18	−17.56	+58 12 25.1	9.998946
Dresden (Geodät. Inst.) .	168	+51 1 49.3	−0 54 55.1	− 9.02	+50 50 28.5	9.999130
Dresden (Mathem. Salon) .	—	+51 3 14.7	−0 54 55.83	− 9.02	+50 51 54.0	9.999117
Dublin (Dunsink Obs.) . .	86	+53 23 13.1	+0 25 21.1	+ 4.17	+53 12 6.4	9.999065
Düsseldorf (Bilk) . . .	46	+51 12 25.0	−0 27 2.69	− 4.44	+51 1 5.1	9.999117
Dunlap Obs. (Toronto) .	244	+43 51 46	+5 17 41.3	+52.19	+43 40 11	9.999317
Durham	108	+54 46 6.2	+0 6 19.75	+ 1.04	+54 35 9.8	9.999033
Edinburgh	146	+55 55 30	+0 12 44.1	+ 2.09	+55 44 43.5	9.999008
Edinburgh (Blackf. Hill) .	134	+55 55 28.0	+0 12 44.0	+ 2.09	+55 44 41.5	9.999007
Evanston (Dearborn Obs.)	175	+42 3 33.4	+5 50 42.3	+57.61	+41 52 1.6	9.999358
Faenza (Urania Lamonia) .	45	+44 17 2	−0 47 33.9	− 7.81	+44 5 27	9.999293
Flagstaff (Lowell Obs.) .	2210	+35 12 30.5	+7 26 44.6	+73.39	+35 1 35.8	9.999667
Florenz (Alte Sternw.)[7]) .	73	+43 46 4.1	−0 44 59.6	− 7.39	+43 34 29.2	9.999308
Florenz (Mil. Geogr. Inst.)	72	+43 46 49.4	−0 45 2.5	− 7.40	+43 35 14.5	9.999308
Frankfurt a. M. . . .	121	+50 7 0	−0 34 36.3	− 5.70	+49 55 34.6	9.999149
Genf Mer.-Kr.	406	+46 11 59.3	−0 24 36.53	− 4.04	+46 0 24.1	9.999269
Genua (Mar. Sternw.) Mer.-Kr. . .	108	+44 25 8.1	−0 35 41.28	− 5.86	+44 13 32.6	9.999294
Georgetown D. C. . .	62	+38 54 26.2	+5 8 18.33	+50.65	+38 43 6.7	9.999430
Glasgow Schottl. . .	55	+55 52 42.1	+0 17 10.55	+ 2.82	+55 41 55.2	9.999003

[1]) Observ. der Kgl. Josef-Technischen Hochschule. — [2]) Harvard College Observatory. — [3]) Leander Mc. Cormick Observatory, University of Virginia. — [4]) Mount Lookout seit 1873. — [5]) Laws Observatory. — [6]) University Park, Chamberlin Observatory. — [7]) 1872 nach Arcetri verlegt.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich − östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Göttingen Mer.-Kr. . .	161	+51 31 48.2	−0 39 46.22	− 6.53	+51 20 30.0	9.999117
Gotha (Neue Sternw.)[1] Zentr. d. St.) . .	322	+50 56 37.9	−0 42 50.51	− 7.04	+50 45 16.7	9.999142
Graz	375	+47 4 37.2	−1 1 47.71	−10.15	+46 53 3.2	9.999244
Greenwich Transit Circle .	47	+51 28 38.2	0 0 0.00	0.00	+51 17 19.7	9.999110
Groningen	4	+53 13 13.8	−0 26 15.11	− 4.31	+53 2 6.0	9.999064
Hamburg (Alte Sternw.)[2] Mer.-Kr.)	25	+53 33 6.0	−0 39 53.60	− 6.55	+53 22 0.4	9.999057
Hamburg (D. Seewarte) .	30	+53 32 51.8	−0 39 53.42	− 6.55	+53 21 46.2	9.999058
Hanover N. H. . . .	183	+43 42 15.3	+4 49 8.00	+47.50	+43 30 40.5	9.999317
Haverford	116	+40 0 40.1	+5 1 12.7	+49.48	+39 49 15.4	9.999406
Heidelberg (Wolfs Sternw.)	126	+49 24 35	−0 34 48.4	− 5.72	+49 13 7	9.999159
Heidelberg (Königst.) Mer.-Kr. . .	570	+49 23 54.6	−0 34 53.13	− 5.73	+49 12 26.8	9.999198
Helsingfors Mer.-Kr. . .	33	+60 9 42.3	−1 39 49.10	−16.40	+59 59 40.8	9.998903
Helwan.	115	+29 51 31.1	−2 5 21.77	−20.59	+29 41 31.4	9.999648
Hongkong	33	+22 18 13.2	−7 36 41.25	−75.02	+22 10 5.8	9.999793
Hyderabad-Deccan[3]) .	554	+17 25 54.3	−5 13 48.98	−51.55	+17 19 17.7	9.999907
Innsbruck	605	+47 16 6.5	−0 45 31.42	− 7.48	+47 4 32.8	9.999254
Istanbul (Univ. Sternw.) .	65	+41 0 45	−1 55 52	−19.03	+40 49 16	9.999377
Jena (Univers.) Zentr. d. St.	164	+50 55 35.6	−0 46 20.22	− 7.61	+50 44 14.3	9.999131
Jena (Winkler)	174	+50 56 15.7	−0 46 20.73	− 7.61	+50 44 54.5	9.999132
Johannesburg	1786	−26 10 52.1	−1 52 17.9	−18.45	−26 1 42.0	9.999839
Johannesburg (Fil. d. Yale Observ.)	1741	−26 11 14	−1 52 7	−18.42	−26 2 4	9.999836
Kairo	—	+30 4 38.2	−2 5 8.80	−20.56	+29 54 35.8	9.999635
Kalocsa[4])	102	+46 31 42.4	−1 15 54.34	−12.47	+46 20 7.6	9.999239
Karlsruhe[5])	110	+49 0 29.6	−0 33 35.40	− 5.52	+48 49 0.4	9.999177
Kasan (Univers.) . . .	79	+55 47 24.3	−3 16 29.03	−32.28	+55 36 36.6	9.999007
Kasan (Engelhardt) . .	98	+55 50 20.5	−3 15 15.74	−32.08	+55 39 33.2	9.999007
Kew	10	+51 28 6	+0 1 15.1	+ 0.21	+51 16 47.5	9.999108
Kiel Neuer Mer.-Kr. . . .	52	+54 20 27.6	−0 40 35.45	− 6.67	+54 9 27.9	9.999040
Kiel Alter Mer.-Kr. . . .	47	+54 20 28.5	−0 40 35.57	− 6.67	+54 9 28.8	9.999040
Kiew Mer.-Kr.	184	+50 27 11.8	−2 2 0.56	−20.04	+50 15 48.3	9.999145
Kital	658	+39 8 1.7	−4 27 31.7	−43.95	+38 56 41.0	9.999465
Kodaikanal	2343	+10 13 50	−5 9 52.0	−50.94	+10 9 47.6	0.000114
Königsberg Reps. Mer.-Kr. [6]) .	22	+54 42 50.6	−1 21 58.98	−13.47	+54 31 53.8	9.999029
Konstanz[7])	420	+47 39 43.6	−0 36 42.01	− 6.03	+47 28 10.7	9.999232
Kopenhagen (Neue Sternw.)[8]) .	14	+55 41 12.6	−0 50 18.69	− 8.26	+55 30 24.0	9.999005
Kopenhagen (Urania-Sternw.) .	10	+55 41 19.2	−0 50 9.11	− 8.24	+55 30 30.6	9.999005
Krakau Mer.-Kr. . . .	221	+50 3 51.9	−1 19 50.28	−13.11	+49 52 26.7	9.999158
Kremsmünster Mer.-Kr.	384	+48 3 23.1	−0 56 31.58	− 9.28	+47 51 51.1	9.999219

[1]) Seit 1857, früher Seeberg. — [2]) 1909 nach Bergedorf verlegt. — [3]) Nizamiah Observatory. — [4]) Erzbischöfl. Haynaldsche Sternwarte. — [5]) 1896 nach Heidelberg verlegt. — [6]) Nach 1898, vor 1898 0ˢ01 westlich. — [7]) Privatsternwarte von E. Leiner. — [8]) Seit 1861 Nov. 11. Alte Sternwarte 20″3 südlich, 0ˢ03 westlich.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich − östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Kyoto (Astron. Inst.)	55	+35 1 37.1	−9 3 7.0	−89.22	+34 50 43.9	9.999525
Kyoto (Kwasan Observ.)	220	+34 59 40.3	−9 3 10.24	−89.23	+34 48 47.4	9.999537
Landstuhl (Fauth)	385	+49 24 42.5	−0 30 16.35	− 4.97	+49 13 14.7	9.999185
La Plata Mer.-Kr. Gautier	17	−34 54 30.3	+3 51 43.74	+38.07	−34 43 38.1	9.999525
Leiden (Neue Sternw.)[1] Mer.-Kr.	6	+52 9 19.8	−0 17 56.15	− 2.94	+51 58 5.2	9.999090
Leipzig (Neue Sternw.)[2] Zentr.	119	+51 20 5.9	−0 49 33.93	− 8.14	+51 8 46.7	9.999119
Lembang (Bosscha St.)	1300	− 6 49 29.1	−7 10 27.81	−70.71	− 6 46 45.5	0.000068
Lemberg (Techn. Hochsch.) Pass. Instr.	340	+49 50 11.2	−1 36 3.40	−15.78	+49 38 45.0	9.999171
Leningrad (Petersburg) (Akad.)	20	+59 56 29.7	−2 1 13.35	−19.91	+59 46 25.5	9.998907
Leningrad (Petersburg) (Univers.)	4	+59 56 32.0	−2 1 11.3	−19.91	+59 46 27.8	9.998906
Lissabon (Tapada)	94	+38 42 30.5	+0 36 44.68	+ 6.04	+38 31 12.0	9.999437
Lissabon (Mar. Sternw.)	—	+38 42 17.6	+0 36 33.6	+ 6.01	+38 30 59.2	9.999431
Liverpool (Neue Sternw.)[3]	62	+53 24 4.8	+0 12 17.33	+ 2.02	+53 12 58.2	9.999063
Lourenço Marques	60	−25 58 5.5	−2 10 22.63	−21.42	−25 48 58.9	9.999725
Lübeck (Navig.-Sch.)	19	+53 51 31.1	−0 42 45.6	− 7.02	+53 40 27.8	9.999049
Lund Zentr. d. Sternw.	34	+55 41 51.6	−0 52 44.97	− 8.66	+55 31 3.1	9.999006
Lüttich Ougrée	128	+50 37 6	−0 22 12	− 3.65	+50 25 43	9.999137
Lyon	299	+45 41 40.8	−0 19 8.5	− 3.14	+45 30 5.3	9.999274
Madison (Washburn Observ.)	292	+43 4 36.8	+5 57 37.90	+58.75	+42 53 2.9	9.999340
Madras	7	+13 4 8.0	−5 20 59.65	−52.73	+12 59 2.5	9.999926
Madrid Zentr. d. Sternw.	656	+40 24 30.1	+0 14 45.09	+ 2.43	+40 13 3.7	9.999433
Mailand, Brera	120	+45 27 59.2	−0 36 45.89	− 6.04	+45 16 23.6	9.999268
Manila	3	+14 35 25	−8 3 50	−79.48	+14 29 47	9.999908
Mannheim Zentr. d. Sternw.	98	+49 29 11.0	−0 33 50.42	− 5.56	+49 17 43.5	9.999164
Marburg	248	+50 48 46.9	−0 35 4.9	− 5.76	+50 37 25.0	9.999141
Mare Island Calif.	18	+38 5 55.8	+8 9 5.63	+80.35	+37 54 40.8	9.999447
Markree (Col. Cooper)	45	+54 10 31.7	+0 33 48.4	+ 5.56	+53 59 30.7	9.999043
Marseille (Neue Sternw.)[4] Mer.-Kr.	75	+43 18 19.1	−0 21 34.56	− 3.54	+43 6 44.8	9.999320
McDonald Observatory (Mount Locke)	2070	+30 40 13	+6 56 6.3	+68.36	+30 30 4	9.999763
Melbourne	28	−37 49 53.4	−9 39 54.17	−95.26	−37 38 39.9	9.999454
Merate (Filiale v. Mailand, Brera)	380	+45 41 54.1	−0 37 42.85	− 6.20	+45 30 18.6	9.999279
Meudon	162	+48 48 18	−0 8 55.5	− 1.46	+48 36 48	9.999185
Middletown, Conn.	70	+41 33 18	+4 50 38.2	+47.74	+41 21 47.6	9.999364
Mizusawa	61	+39 8 3.4	−9 24 31.46	−92.74	+38 56 42.7	9.999424
Modena	63	+44 38 52.8	−0 43 42.8	− 7.18	+44 27 17.2	9.999285
Montreal	57	+45 30 20	+4 54 18.63	+48.35	+45 18 44.4	9.999263
Mt. Hamilton (Lick) Mer.-Kr.	1283	+37 20 25.3	+8 6 34.86	+79.94	+37 9 14.9	9.999552
Mt. Wilson Calif.	1742	+34 12 59.5	+7 52 14.33	+77.57	+34 2 13.3	9.999659

[1]) Seit 1860. Alte Sternwarte 8″.0 nördlich, 0s.42 östlich. — [2]) Seit 1861. Alte Sternwarte 14″.2 nördlich, 4s.00 westlich. — [3]) Alte Sternwarte 44″.0 nördlich, 17s.1 östlich. — [4]) Seit 1866. Alte Sternwarte 30″.1 südlich, 6s.2 westlich; Seehöhe 29m.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich − östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Moskau Mer.-Kr. . . .	142	+55 45 19.5	−2 30 17.03	−24.69	+55 34 31.5	9.999012
Mundenheim[1]) . . .	—	+49 27 30	−0 33 44	− 5.54	+49 16 2	9.999158
München (West-Kuppel) .	529	+48 8 45.5	−0 46 26.02	− 7.63	+47 57 13.8	9.999227
Münster	75	+51 57 45.8	−0 30 29.66	− 5.01	+51 46 30.0	9.999100
Nashville (Vanderbilt Obs.)	174	+36 8 58.2	+5 47 12.81	+57.04	+35 57 56.1	9.999506
Natal	79	−29 50 46.6	−2 4 1.18	−20.37	−29 40 47.0	9.999645
Neapel (Capo di Monte) .	154	+40 51 45.7	−0 57 1.40	− 9.37	+40 40 17.6	9.999387
Neuchâtel Refraktor . .	488	+46 59 49.5	−0 27 49.77	− 4.57	+46 48 15.4	9.999254
New Haven (Neue Stw.)[2])	40	+41 19 22.3	+4 51 40.58	+47.92	+41 7 52.7	9.999368
New York (Rutherfurd) .	—	+40 43 48.5	+4 55 56.66	+48.62	+40 32 20.9	9.999380
New York (Columb. Obs.)	—	+40 45 23.1	+4 55 53.73	+48.61	+40 33 55.4	9.999379
Nikolajew Mer.-Kr. . .	55	+46 58 19.3	−2 7 53.98	−21.01	+46 46 45.1	9.999225
Nizza Kl. Mer.-Kr.[3]) . .	378	+43 43 16.9	−0 29 12.15	− 4.79	+43 31 42.0	9.999330
Northfield (Goodsell Obs.)	290	+44 27 41.4	+6 12 35.94	+61.21	+44 16 5.9	9.999305
Oakland Californ.[4]) .	99	+37 47	+8 8 48	+80.30	+37 35 47	9.999460
Oak Ridge (Filiale d. Harvard Obs.)	183	+42 30 13	+4 46 14.2	+47.02	+42 18 40	9.999347
Odessa (Univ.-Stw.) Mer.-Kr.	55	+46 28 36.2	−2 3 2.05	−20.21	+46 17 1.3	9.999237
Odessa (Filiale Pulkowa) .	—	+46 28 36.0	−2 3 2.19	−20.21	+46 17 1.1	9.999234
Oslo (Christiania) Mer.-Kr..	25	+59 54 43.7	−0 42 53.51	− 7.04	+59 44 39.2	9.998908
Ottawa Mer.-Kr. . . .	85	+45 23 39.1	+5 2 51.98	+49.75	+45 12 3.5	9.999267
Oxford (Radcl. Obs.) . .	65	+51 45 33.9	+0 5 3.0	+ 0.83	+51 34 17.0	9.999104
Oxford (Univers.) . . .	64	+51 45 34.2	+0 5 0.4	+ 0.82	+51 34 17.3	9.999104
Oxford, Mississippi . .	140	+34 22 12.6	+5 58 7.18	+58.83	+34 11 25.1	9.999546
Padua	38	+45 24 1.2	−0 47 29.15	− 7.80	+45 12 25.6	9.999263
Palermo	72	+38 6 44.0	−0 53 25.87	− 8.78	+37 55 28.9	9.999451
Paris (Obs. nat.) Mer. Cassini	59	+48 50 11.2	−0 9 20.93	− 1.53	+48 38 41.5	9.999177
Paris (Montsouris) westl. Mer.	—	+48 49 18.0	−0 9 20.6	− 1.53	+48 37 48.2	9.999174
Peking	—	+39 54 23.0	−7 45 52.87	−76.53	+39 42 58.7	9.999401
Perkins Obs. (Delaware)	270	+40 15 4	+5 32 13.33	+54.58	+40 3 38	9.999410
Perth, West-Austr. . .	60	−31 57 10.7	−7 43 21.62	−76.12	−31 46 46.9	9.999597
Petersburg (Leningrad) (Akademie) .	20	+59 56 29.7	−2 1 13.35	−19.91	+59 46 25.5	9.998907
Petersburg (Leningrad) (Univers.) .	4	+59 56 32.0	−2 1 11.3	−19.91	+59 46 27.8	9.998906
Philadelphia[5])	74	+39 58 2.1	+5 1 6.88	+49.47	+39 46 37.5	9.999404
Pic du Midi (Filiale v. Toulouse) .	2850	+42 56 31.5	−0 0 34.29	− 0.09	+42 44 57.8	9.999518
Plonsk[6])	—	+52 37 40.0	−1 21 31.9	−13.39	+52 26 28.2	9.999078
Pola	32	+44 51 48.6	−0 55 23.07	− 9.10	+44 40 12.9	9.999277
Porto Alegre[7]) Mer.-Kr..	—	−30 1 51	+3 24 53.2	+33.66	−29 51 49	9.999636
Posen	85	+52 23 48.6	−1 7 30.60	−11.09	+52 12 35.4	9.999090

[1]) Dr. Max Mündler. — [2]) Yale University. Alte Sternwarte $45''.8$ südlich, $1^{s}.58$ westlich. — [3]) Herr R. Bischofsheim. — [4]) Chabot Observatory. — [5]) Flower Obs. (Univ. of Pennsylvania). — [6]) Dr. Jedrzejewicz; 1898 nach Warschau verlegt. — [7]) Observatorio Regional do Rio Grande do Sul.

Koordinaten der Sternwarten

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich − östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Potsdam (Astrophys. Obs.).	97	+52 22 56.0	− 0 52 15.86	− 8.58	+52 11 42.7	9.999091
Potsdam (Geod. Inst.) Turm	99	+52 22 54.8	− 0 52 16.11	− 8.58	+52 11 41.5	9.999091
Poughkeepsie[1]) . . .	61	+41 41 18	+ 4 55 35.2	+48.56	+41 29 47	9.999360
Prag (Univ.-Stw.) Turm . .	197	+50 5 16.0	− 0 57 40.29	− 9.47	+49 53 50.9	9.999155
Prag (Safarik)	—	+50 4 24	− 0 57 48	− 9.49	+49 52 59	9.999142
Princeton N. J. (N.Stw.)[2])	75	+40 20 55.8	+ 4 58 39.44	+49.06	+40 9 29.7	9.999395
Providence[3])	171	+41 49 46.4	+ 4 45 37.64	+46.92	+41 38 15.2	9.999363
Pulkowa Zentr. d. Stw. .	75	+59 46 18.5	− 2 1 18.57	−19.93	+59 36 12.3	9.998914
Pulsnitz[10])	284	+51 10 54.6	− 0 56 4.18	− 9.21	+50 59 34.6	9.999134
Quebec Canada . . .	90	+46 47 59.2	+ 4 44 52.71	+46.80	+46 36 24.8	9.999231
Quito	2846	− 0 14 0	+ 5 13 58.20	+51.58	− 0 13 54	0.000194
Riga (Polytechnikum) Turm	—	+56 57 7	− 1 36 28.11	−15.84	+56 46 30	9.998974
Rio de Janeiro. . . .	63	−22 54 23.7	+ 2 52 41.52	+28.37	−22 46 6.0	9.999784
Rio de Janeiro (N. Stw.)	33	−22 53 42.1	+ 2 52 53.6	+28.40	−22 45 24.7	9.999782
Rom (Coll. Rom.) Mer.-Kr.	59	+41 53 53.6	− 0 49 55.36	− 8.19	+41 42 22.3	9.999354
Rom (Capitol) Mer.-Kr. . .	65	+41 53 33.2	− 0 49 56.34	− 8.20	+41 42 1.9	9.999355
Rom (Vatican) Mer.-Kr. [9])	100	+41 54 12.4	− 0 49 48.26	− 8.18	+41 42 41.1	9.999357
Rousdon	157	+50 42 38	+ 0 11 58.9	+ 1.96	+50 31 16	9.999137
Rugby	119	+52 22 30	+ 0 5 2.0	+ 0.83	+52 11 16.7	9.999093
St. Louis Missouri . .	—	+38 38 3.6	+ 6 0 49.15	+59.28	+38 26 45.5	9.999433
Saltsjöbaden (Stockholms Observator.)	55	+59 16 18	− 1 13 14	−12.03	+59 6 6	9.998924
San Fernando	30	+36 27 42.0	+ 0 24 49.30	+ 4.08	+36 16 37.7	9.999488
San Francisco[4]) . . .	—	+37 47 28.0	+ 8 9 42.81	+80.45	+37 36 14.8	9.999453
Santiago de Chile (N. St.)	580	−33 33 44.2	+ 4 42 46.0	+46.44	−33 23 4.1	9.999595
Santiago de Chile (A. St.)	619	−33 26 25.4	+ 4 42 36.9	+46.42	−33 15 46.4	9.999600
Sétif	1120	+36 11 10	− 0 21 38.6	− 3.55	+36 0 7.7	9.999569
Simeïs	360	+44 24 11.6	− 2 15 59.38	−22.34	+44 12 36.1	9.999312
Sofia (Mil. Geogr. Jnst.). .	555	+42 41 51	− 1 33 19.87	−15.33	+42 30 18	9.999368
Sonneberg (Hoffmeister) .	405	+50 21 29.5	− 0 44 42.87	− 7.34	+50 10 5.5	9.999163
Sonneberg (Erbisbühl). .	640	+50 22 41.4	− 0 44 46.19	− 7.36	+50 11 17.5	9.999178
South Hadley	76	+42 15 18.2	+ 4 50 19	+47.69	+42 3 45.9	9.999346
Stalinabad (Tadjik Observ.)	—	+38 33 30	− 4 35 6.2	−45.19	+38 22 12	9.999434
Stará Dala[5])	113	+47 52 27.3	− 1 12 45.49	−11.95	+47 40 54.9	9.999206
Stockholm (Alte St.) M.-Kr.[6])	44	+59 20 32.7	− 1 12 13.97	−11.86	+59 10 21.4	9.998922
Stonyhurst	116	+53 50 40.0	+ 0 9 52.7	+ 1.62	+53 39 36.5	9.999056
Straßburg (N.St.). M.-Kr.[7])	144	+48 35 0.4	− 0 31 4.53	− 5.10	+48 23 29.9	9.999190
Sydney	44	−33 51 41.1	−10 4 49.54	−99.36	−33 40 58.2	9.999551
Tacubaya[8])	2311	+19 24 17.9	+ 6 36 46.71	+65.18	+19 17 3.0	9.999997
Tartu (Dorpat, Jurjew) Mer.-Kr.	67	+58 22 47.2	− 1 46 53.19	−17.56	+58 12 25.1	9.998946
Taschkent	479	+41 19 36.7	− 4 37 10.57	−45.53	+41 8 7.1	9.999398

[1]) Vassar College. — [2]) Alte Sternwarte 2″.0 nördlich, 1ˢ94 östlich; 65ᵐ. — [3]) Seagrave. Ladd Observatory 35″ nördlich, 1ˢ57 östlich. — [4]) Davidson Observatory. — [5]) Früher O-Gyalla. — [6]) Neue Sternwarte seit 1931 in Saltsjöbaden. — [7]) Seit Anfang 1881. — [8]) Seit März 1883, früher in Chapultepec. — [9]) 1933 nach Castel Gandolfo verlegt. — [10]) Privatsternwarte des Herrn Classen.

Name	Seehöhe	Geogr. Breite	Länge von Greenwich + westlich — östlich	Korr. der Sternzeit	Geoz. Breite	Log. ρ incl. Seehöhe
	m	° ′ ″	h m s	s	° ′ ″	
Teramo (Cerulli)	398	+42 39 27	— 0 54 55.8	— 9.02	+42 27 54	9.999358
Tokio	59	+35 40 21.3	— 9 18 10.09	— 91.69	+35 29 22.9	9.999509
Toronto (Univ. Obs.) . .	110	+43 39 46.0	+ 5 17 34.70	+ 52.17	+43 28 11.2	9.999313
Toronto (Dunlap Obs.) . .	244	+43 51 46	+ 5 17 41.3	+ 52.19	+43 40 11	9.999317
Tortosa (Ebro-Stw.) M.-Kr.	54	+40 49 14	— 0 1 58	— 0.32	+40 37 46	9.999382
Toulouse Mer.-Kr. . . .	195	+43 36 44.0	— 0 5 51.2	— 0.96	+43 25 9.3	9.999320
Triest	23	+45 38 45.4	— 0 55 2.90	— 9.04	+45 27 9.9	9.999256
Tsingtau (Met.-astr. Stat.).	—	+36 4 11.3	— 8 1 16.21	— 79.06	+35 53 9.8	9.999496
Tucson Arizona (Steward Obs.) .	757	+32 13 59.4	+ 7 23 47.68	+ 72.90	+32 3 32.6	9.999638
Turin Mer.-Kr.	276	+45 4 7.9	— 0 30 47.15	— 5.06	+44 52 32.2	9.999288
Turin (Pino Torinese) .	618	+45 2 16.3	— 0 31 5.95	— 5.11	+44 50 40.6	9.999312
Upsala (N. Stw.) Pass.-Instr.	21	+59 51 29.4	— 1 10 30.13	— 11.58	+59 41 24.2	9.998909
Urbana Jll.	236	+40 6 20.2	+ 5 52 53.90	+ 57.97	+39 54 55.1	9.999412
Utrecht.	12	+52 5 9.5	— 0 20 31.6	— 3.37	+51 53 54.4	9.999093
Valkenburg (Ignatius Coll.)	100	+50 52 29.3	— 0 23 19.91	— 3.83	+50 41 7.8	9.999129
Venedig	15	+45 26 10.5	— 0 49 22.12	— 8.11	+45 14 34.9	9.999261
Victoria B.C. (Dominion Obs.)	229	+48 31 15.7	+ 8 13 40.17	+ 81.18	+48 19 45.0	9.999197
Warschau[1]) Zentr. d. Stw.	121	+52 13 4.6	— 1 24 7.25	— 13.82	+52 1 50.3	9.999097
Warschau[2])	—	+52 13 10	— 1 24 4.8	— 13.81	+52 1 56	9.999088
Warschau (Techn.Hochsch.)	144	+52 13 21.0	— 1 24 2.4	— 13.81	+52 2 6.8	9.999098
Washington (Alte Stw.) .	31	+38 53 38.9	+ 5 8 12.13	+ 50.63	+38 42 19.4	9.999428
Washington (Neue Stw.) .	82	+38 55 14.0	+ 5 8 15.78	+ 50.64	+38 43 54.4	9.999431
Washington (Kath. Univ.)	—	+38 56 14.8	+ 5 8 0.0	+ 50.60	+38 44 55.1	9.999425
Wellington Transit Instr.[3])	127	—41 17 3.8	—11 39 4.27	—114.84	—41 5 34.3	9.999375
West Point N. Y. (N.Stw.)[4])	170	+41 23 22.1	+ 4 55 50.6	+ 48.60	+41 11 52.3	9.999375
Wien (Alte Sternw.) . . .	167	+48 12 35.5	— 1 5 31.61	— 10.76	+48 1 3.9	9.999201
Wien (Josephstadt)[5]). . .	214	+48 12 53.8	— 1 5 25.17	— 10.74	+48 1 22.2	9.999204
Wien (Neue Sternw.) Zentr.	240	+48 13 55.3	— 1 5 21.35	— 10.73	+48 2 23.8	9.999205
Wien (Ottakring)[6]) . . .	285	+48 12 46.7	— 1 5 10.97	— 10.71	+48 1 15.1	9.999209
Wien (Mil. Geogr. Inst.) .	211	+48 12 40.5	— 1 5 26.24	— 10.75	+48 1 8.9	9.999203
Wien (Techn. Hochschule) .	198	+48 11 58.3	— 1 5 29.76	— 10.76	+48 0 26.7	9.999204
Wilhelmshaven Mer.-Kr.	9	+53 31 52.1	— 0 32 35.15	— 5.35	+53 20 46.4	9.999057
Williams-Bay Wisc.[7]) .	334	+42 34 12.6	+ 5 54 13.24	+ 58.19	+42 22 39.6	9.999356
Williamstown Mass. .	213	+42 42 49	+ 4 52 53.5	+ 48.12	+42 31 16	9.999344
Wilna Pass.-Instr. . . .	122	+54 40 59.1	— 1 41 8.76	— 16.61	+54 30 2.1	9.999036
Wolfersdorf	279	+50 47 20.0	— 0 46 50.94	— 7.70	+50 35 58.0	9.999143
Zô-sè China	100	+31 5 47.6	— 8 4 44.75	— 79.63	+30 55 33.2	9.999619
Zürich Meridian-Kreis . .	468	+47 22 38.3	— 0 34 12.3	— 5.62	+47 11 4.8	9.999242

[1]) Universitäts-Sternwarte. — [2]) Dr. Jedrzejewicz; seit 1898, früher in Plonsk. — [3]) Dominion Observatory. — [4]) Seit 1883. Alte Sternwarte 9″ nördlich, 1ˢ2 östlich. — [5]) von Oppolzers Sternwarte. — [6]) v. Kuffner. — [7]) Yerkes Observatory.

Normalzeiten der wichtigeren Länder

a) An den Meridian von Greenwich angeschlossen

Normalzeit = Mittl. Ortszeit des Meridians	Bezeichnung	Staaten
östl. Gr. h m		
11 30	—	Neu Seeland
10 0	Ostaustralische Z.	Victoria, Neu Süd-Wales, Queensland, Tasmanien
9 30	—	Süd-Australien
9 0	—	Japan, Korea
8 0	Ostchinesische Küsten-Z.	Ostküste von China, West-Australien
7 0	Südchinesische Küsten-Z.	Südküste von China, Franz. Indochina, Siam
5 30	—	Indien, Ceylon
4 0	—	Europ. Rußland*) von 40° bis 52° 30′ östl. Länge
3 0	—	Europ. Rußland*) westl. von 40° östl. Länge
2 30	—	Deutsch Ostafrika
2 0	Osteuropäische Z.	Finnland, Estland, Lettland, Bulgarien, Rumänien, Griechenland, Türkei, Palästina, Ägypten, Süd-Afrika
1 0	Mitteleuropäische Z. (M. E. Z.)	Norwegen, Schweden, Dänemark, Deutschland, Österreich, Ungarn, Schweiz, Italien, Litauen, Polen, Tchechoslovakei, Jugoslavien, Kamerun, Deutsch Südwest-Afrika
h m 0 0	Westeuropäische Z. (Greenwich Z.)	Belgien, Frankreich, Großbritannien und Irland, Luxemburg, Portugal, Spanien, Gibraltar, Algerien
westl. Gr. h m		
1 0	—	Island, Madeira, Kanarische Inseln
2 0	—	Azoren, Kap Verdesche Inseln
3 0	—	Ost-Brasilien, Grönland
	—	Argentinien (1. Nov.—Ende Febr.)
	—	Uruguay (Nov.—März)
3 30	—	Uruguay (April—Okt.)
4 0	Atlantic St. Time	Mittel-Brasilien, Argentinien (1. März—31. Okt.), Canada (Küste), Paraguay, Chile (1. Sept. bis 31 .März)
4 30	—	Venezuela
4 33	—	Bolivien
5 0	Eastern St. Time	Canada (Quebec, Ontario zwisch. 68° u. 90° westl.), Verein. Staat. (Ost-Zone), Chile (1. Apr.-31. Aug.) Panama, Peru, West-Brasilien, Columbien
6 0	Central St. Time	Zentral-Zone von Canada u. v. d. Verein. Staaten, Mexico, mit Ausnahme des nördl. Teiles
7 0	Mountain St. Time	Gebirgszone von Canada u. v. d. Verein. Staaten
8 0	Pacific St. Time	Vereinigte Staaten (Pacifische Küste), Britisch Columbien, nördl. Mexico
10 30	—	Hawaii (Sandwich Inseln)

*) Im Gebiet der Sowjet-Republiken sind alle Uhren 1 Stunde vorgestellt.

b) Nicht an den Meridian von Greenwich angeschlossen

Staaten	Meridian	Längendifferenz gegen Greenwich
		h m s
Ecuador	Quito	5 14 6.7 W.
Niederlande	Amsterdam	0 19 32.1 O.

Besondere Erläuterungen zu den Angaben und zum Gebrauch des Jahrbuchs.

Das Jahrbuch gibt die Örter der *Wandelsterne* in geozentrischen und in heliozentrischen Koordinaten. Die Zeitpunkte, für die sie gelten, sind in Welt-Zeit ausgedrückt, wenn nicht ausdrücklich eine andere Zeit angegeben wird. **Welt-Zeit ist identisch mit Bürgerlicher Zeit Greenwich.** Der bürgerliche Tag beginnt um Mitternacht, die Welt-Zeit-Stunden sind von 0^h bis 24^h durchgezählt. Die Beziehung zu der bis zum Jahrgang 1924 (einschließlich) im Jahrbuch verwendeten Mittleren Zeit Greenwich besteht darin, daß der astronomische mittlere Tag erst am Mittag des bürgerlichen Tages, also 12^h nach dessen Anfang beginnt. Somit ist 1925 Jan. 1, 0^h Welt-Zeit gleich 1924 Dez. 31, 12^h Mittlere Zeit Greenwich.

Die Örter der *Fixsterne* sind gegeben als »Mittlere Sternörter«, bezogen auf das mittlere Äquinoktium des Jahresanfangs, und in Ephemeridenform als »Scheinbare Sternörter«, bezogen auf das instantane wahre Äquinoktium.

Zur Erläuterung ist im einzelnen folgendes zu bemerken:

Sonnenephemeride (S. 2—29 und 100—108).

Der erste Teil der Sonnenephemeride (S. 2—19) gibt auf den linken Seiten für 0^h Welt-Zeit an jedem Tage:

1) Die Zeitgleichung = Wahre Zeit *minus* Mittlere Zeit.

2) Die geozentrischen, äquatorialen Koordinaten α, δ des scheinbaren Sonnenorts, bezogen auf das jedesmalige wahre Äquinoktium, zugleich mit der ersten Differenzenreihe. Diese Angaben sind direkt mit den Beobachtungen vergleichbar. Die Nutationsglieder kurzer Periode sind, wie im Vorwort erwähnt, in den Koordinaten nicht enthalten.

3) Die halbe Durchgangsdauer (in Sternzeit) der Sonnenscheibe durch den Meridian.

4) Den geozentrischen Halbmesser der Sonnenscheibe, d. i. der Winkel, unter dem der Sonnenhalbmesser vom Erdmittelpunkt aus erscheint.

Die rechten Seiten geben:

1) Die Julianische Zeit, d. i. die Anzahl der seit Beginn der Julianischen Periode verflossenen mittleren Sonnentage.

2) Die Sternzeit für 0^h Welt-Zeit. In ihr sind, wie im Vorwort erwähnt, nur die langperiodischen Glieder der Nutation enthalten.

Um für einen Erdort der westlichen Längendifferenz $\Delta\lambda$ (in Stunden) gegen Greenwich die Sternzeit in seiner mittleren Mitternacht zu erhalten, ist zu diesen Angaben hinzuzulegen: $9^s.8565\ \Delta\lambda$. Diese Werte finden sich unter der Überschrift: »Korr. der Sternzeit« im Verzeichnis der Sternwarten.

3) Die Nutation in Rektaszension getrennt nach langperiodischen und kurzperiodischen Gliedern.

4) Die geozentrischen ekliptikalen Koordinaten λ, β der Sonne, bezogen auf das mittlere Äquinoktium des Jahresanfangs, sowie log R, den Logarithmus der Entfernung R der Erde von der Sonne. Diese Angaben finden bei Bahnberechnungen u. dergl. Verwendung.

5) Die bürgerlichen Ortszeiten des Aufgangs und Untergangs der Sonne für einen Ort des Nullmeridians in $+50°$ Breite; sie sind mit der Horizontalrefraktion $34'$ berechnet und gelten für den oberen Rand der Sonne. Um daraus für einen beliebigen anderen Ort zwischen $+30°$ und $+60°$ geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 332*, 333* zu benutzen.

Auf S. 20—28 folgen, bezogen auf das mittlere Äquinoktium des Jahresanfangs, die rechtwinkligen, geozentrischen, äquatorialen Sonnenkoordinaten für 0^h Welt-Zeit mit ihren ersten und zweiten Differenzen. Die gleichen Koordinaten, jedoch bezogen auf das Normaläquinoktium 1950.0, werden auf S. 100—108 gegeben.

Die Werte von X, Y, Z sind auf 6 Dezimalen gegeben. Die Ephemeriden bieten jedoch die Möglichkeit, die Sonnenkoordinaten auch auf 7 Dezimalen zu entnehmen. Zu diesem Zwecke füge man an die 6-stelligen Werte eine Null an und vereinige sie algebraisch mit den Werten von ΔX, ΔY, ΔZ. Ein ausführliches Beispiel hierfür ist im Jahrgang 1933, S. 362* gegeben.

Die gleichen Vorschriften gelten für die auf das Normaläquinoktium 1950.0 bezogenen Sonnenkoordinaten auf S. 100—108.

Am Fuß der Seite 28 finden sich die Zeiten für die Anfänge der Jahreszeiten und für die Erdnähe und Erdferne der Sonne.

Die Seite 29 enthält die Aberration, Parallaxe, mittlere Länge $L_\odot$ und mittlere Anomalie $M_\odot$ der Sonne im Intervall von je 10 Tagen.

Mondephemeride (S. 30—48).

Die Mondephemeride (S. 30—47) gibt auf den linken Seiten für 0^h Welt-Zeit:

1) Die scheinbare Rektaszension und Deklination des Mondmittelpunktes mit den ersten Differenzen.

2) Die Äquatorial-Horizontalparallaxe $p_☾$ des Mondes.

3) Den geozentrischen Mondhalbmesser $r_☾$, d. i. der Winkel, unter dem der Mondhalbmesser vom Erdmittelpunkt aus erscheint.

4) Die Länge und Breite des Mondes, abgekürzt auf $0°.001$.

Die rechten Seiten enthalten:

1) Für den oberen Durchgang des Mondes durch den Meridian von Greenwich die genäherten Angaben für die Rektaszension, Deklination und Parallaxe des Mondmittelpunktes, sowie die bürgerliche Greenwicher Zeit dieses Durchgangs, nebst den Änderungen für 1^h westlicher Längendifferenz.

2) Die bürgerlichen Ortszeiten des Aufgangs und Untergangs des Mondes für einen Ort des Nullmeridians in $+50°$ Breite nebst Änderung für 1^h westlicher Längendifferenz; sie sind mit der Horizontalrefraktion 34′ berechnet und gelten für den oberen Rand des Mondes. Um daraus für einen beliebigen anderen Ort zwischen $+30°$ und $+60°$ geographischer Breite die entsprechenden Angaben zu erhalten, ist die Tabelle S. 334*, 335* zu benutzen.

Seite 48 enthält die Zeitangaben für die Phasen und die Erdnähe und Erdferne des Mondes.

Ephemeriden der Großen Planeten (S. 49—99 und 109—112).

Die geozentrischen Örter der Planeten sind für Merkur, Venus, Mars, Jupiter, Saturn von Tag zu Tag, für Uranus, Neptun und Pluto von 4 zu 4 Tagen für 0^h Welt-Zeit mit ihren ersten Differenzen gegeben. Für die Planeten Merkur bis Neptun sind scheinbare, auf das momentane wahre Äquinoktium bezogene Örter gegeben. Die Örter von Pluto sind auf das mittlere Äquinoktium 1950.0 bezogen und sind nicht wegen Aberration korrigiert. Zur bequemeren Vergleichung der Beobachtungen mit der Ephemeride sind bei diesem Planeten Fixsternaberration und Lichtzeit in besonderen Spalten angeführt. Die letzte Spalte gibt die bürgerliche Zeit (Greenwich) der oberen Kulmination in Greenwich.

Die Örter von Pluto sind nach den Elementen XIX von E.C. Bower, Lick Observatory Bulletin 437, unter Berücksichtigung der Störungen durch Jupiter, Saturn, Uranus und Neptun berechnet.

Die scheinbaren Halbmesser in der Einheit der Entfernung sind:

Merkur	3.″34	Saturn (äquat.)	83.″33
Venus	8.41	» (polar)	74.57
Mars	4.68	Uranus	34.28
Jupiter (äquat.)	98.47	Neptun	36.56
» (polar)	91.91		

Die heliozentrischen Ephemeriden der Planeten (S. 109—112) geben den Log. des Radiusvector, die Länge, deren Reduktion auf die Bahn und die Breite bezogen auf das mittlere Äquinoktium 1950.0.

☊ und i stellen die Bahnlage für die Epoche 1950.0 und das Normaläquinoktium 1950.0 dar.

Die Genauigkeit und Ausführlichkeit dieser heliozentrischen Angaben sind ihrem Hauptzweck, zur Berechnung der speziellen Störungen zu dienen, angepaßt.

Die beigefügten Werte der Planetenmassen sind die den Tafeln von Newcomb und von Hill zugrunde liegenden. Für die Erde ist

noch besonders zu erwähnen, daß die Masse von »Erde + Mond« gegeben ist, Radiusvector und heliozentrische Länge sich auf den Schwerpunkt des Systems »Erde + Mond« beziehen.

Mittlere Örter von 925 Fixsternen (S. 2*—25*).

Die mittleren Örter der 925 Fixsterne sind aus den Daten der Veröffentlichung Nr. 33 des *Königlichen Astronomischen Rechen-Instituts* mit den daselbst angegebenen Hilfsgrößen für Präzession und Eigenbewegung abgeleitet worden. Nur die mittleren Örter der 20 Polsterne sind durch numerische Integration berechnet. Zum Übergang auf die Örter des Dritten Fundamentalkataloges dienen die Angaben auf den Seiten 368*—379*.

Ein * vor dem Namen weist auf eine Anmerkung am Fuß der Seite hin.

Unter Gr. stehen die visuellen Größen, welche aus der »Revised Harvard Photometry« in »Harvard Annals, vol. 50« entnommen sind, sofern nichts anderes bemerkt ist. Wo für einen Stern zwei Größen gegeben sind, beziehen sich diese auf die Komponenten eines Doppelsterns. Die in den Anmerkungen gegebenen Größen für Doppelsternkomponenten und für die Extrema der Veränderlichen sind dem »Henry Draper Catalogue« entnommen.

Die Spektren sind aus dem Draper Katalog übernommen worden. Zusammengesetzte Spektren sind durch + gekennzeichnet. In anderen Fällen beziehen sich, wo 2 Spektren gegeben sind, diese auf die Komponenten eines Doppelsterns.

Scheinbare Örter von 579 Fixsternen (S. 26*—235*).

Die scheinbaren Rektaszensionen und Deklinationen der Fixsterne sind für den Moment der oberen Kulmination im Meridian von Greenwich gegeben.

Die Ephemeriden der 555 Sterne mit Deklinationen kleiner als 80°, deren scheinbare Örter von 10 zu 10 Sterntagen gegeben sind, enthalten die kurzperiodischen Mondglieder der Nutation nicht. Das Datum des Tages, an welchem zwei Kulminationen stattfinden, ist in kleinem Druck vor der Rektaszensionsspalte angeführt.

Die jährliche Parallaxe ist bei folgenden Sternen berücksichtigt, bei denen sie hinreichend verbürgt erscheint, nämlich:

Nr. 59	τ	Ceti	mit	0.″315
Nr. 127	ε	Eridani	»	0.310
Nr. 257	α	Can. maj.	»	0.371
Nr. 291	α	Can. min.	»	0.312
Nr. 295	β	Geminor.	»	0.101
Nr. 444	β	Leonis	»	0.101
Nr. 445	β	Virginis	»	0.101
Nr. 470	8	Can. ven.	»	0.107
Nr. 492	43	Comae	»	0.133
Nr. 538	α	Centauri	mit	0.″758
Nr. 667	μ	Herculis	»	0.111
Nr. 695	χ	Draconis	»	0.118
Nr. 699	α	Lyrae	»	0.124
Nr. 745	α	Aquilae	»	0.204
Nr. 793	61	Cygni pr.	»	0.300
Nr. 819	δ	Capricorni	»	0.114
Nr. 875	Br	3077	»	0.145

Von den im B. J. nicht mit Ephemeriden versehenen Sternen des NFK besitzen noch folgende hinreichend verbürgte Parallaxen: Nr. 119 e Eridani 0".161, Nr. 135 δ Eridani 0".137, Nr. 217 γ Leporis 0".149 und Nr. 825 ε Indi 0".281.

Die Ephemeriden der auf S. 2*—24* eingeklammerten Sterne findet man im Almanaque Nautico.

Es folgen die scheinbaren Örter von 20 Polsternen für jede obere Kulmination. Sie enthalten die kurzperiodischen Mondglieder nicht, jedoch sind deren Werte in besonderen Spalten gegeben.

Am Fuße der Ephemeriden ist der mittlere Ort eines jeden Sternes für den Anfang des Jahres und die Werte von sec δ und tg δ angegeben, welche bei der Reduktion der Meridianbeobachtungen nach der hierfür am zweckmäßigsten erscheinenden Besselschen Formel gebraucht werden. Ferner sind hier die Größen a, b, a', b' enthalten, mit deren Hilfe die Nutationsglieder kurzer Periode leicht berechnet werden können. Man erhält $A'a + B'b$ in Zeitsekunden, $A'a' + B'b'$ in Bogensekunden.

Auf den Seiten 226*—235* sind die scheinbaren, rechtwinkligen Koordinaten von vier polnahen Sternen gegeben. Sie beziehen sich auf ein Koordinatensystem, dessen positive x-Achse nach dem Frühlingspunkt und dessen positive y-Achse nach dem Punkt $\alpha = 6^h$, $\delta = 0°$ gerichtet ist. Der Zusammenhang zwischen x, y und α, δ ist gegeben durch die Beziehungen: $x = \cos\delta \cos\alpha$, $y = \cos\delta \sin\alpha$. Die Angaben gelten für 12^h Sternzeit Greenwich und enthalten die kurzperiodischen Mondglieder der Nutation nicht, deren Werte jedoch in der letzten Spalte einer jeden Seite unter der Überschrift »Kurzperiod. Mondgl.« gegeben sind.

Als Quellen für die Koordinaten und Eigenbewegungen dieser vier Sterne sind benutzt worden:

für BD + 89° 1: L. Courvoisier: Beobachtungen des Sterns BD 89° 1 am großen Meridiankreis der Berliner Sternwarte. Astron. Nachr. Bd. **200**, 243,

für BD + 89° 3: L. Courvoisier: Ephemeriden der Polsterne BD 89° 3 und BD 89° 37 für 1923. Astron. Nachr. Bd. **217**, 319,

für BD + 89° 37: L. Courvoisier: Neue Position und Eigenbewegung des Polsterns BD + 89° 37. Astron. Nachr. Bd. **230**, 71,

für CPD — 89° 38: Cape Annals Bd. **XI**, II, 244 für den Ort und eine briefliche Mitteilung für die Eigenbewegung.

Mit den an diesen Stellen gegebenen Werten findet man folgende mittlere Örter für 1938.0:

Name	Gr.	x	Jährliche Veränd. 1938.5	Jährliche Eigenbew.	y	Jährliche Veränd. 1938.5	Jährliche Eigenbew.
	M	"	"	"	"	"	"
BD+89° 1	10.56	— 239.72	—20.086	—0.024	+ 78.97	—0.064	—0.008
BD+89° 3	9.06	— 39.70	—20.240	—0.003	+863.60	—0.017	—0.006
BD+89° 37	10.06	—1021.62	—19.978	—0.011	—344.79	—0.216	+0.015
CPD—89° 38	9.5	— 66.50	+20.140	+0.027	—307.47	+0.018	+0.031

Reduktionsgrößen (S. 236*—276*).

Auf die scheinbaren Örter der Sterne folgt S. 236* eine Zusammenstellung der Werte, mit welchen die Reduktionsgrößen der darauf folgenden Tafeln berechnet sind, und der Formeln für die Reduktion auf den scheinbaren Ort.

Die Größen zur »Reduktion auf den scheinbaren Ort« sind in ihrer *ersten* Form: A, B, C, D, E; A', B' gegeben für 12^h Sternzeit des Meridians von Greenwich:

1) Auf S. 237* im Intervall von 10 Sterntagen.

Diese Tafel soll zur Berechnung von Sternephemeriden für die Epochen der Meridiandurchgänge dienen. Wegen ihrer logarithmischen Form und des großen Intervalls ist die Tafel zur Interpolation nicht geeignet. Man wird deshalb zweckmäßig die Interpolation erst nach der Summierung der einzelnen unmittelbar für die Epochen der Tafel berechneten Glieder vornehmen.

2) Auf S. 256*—264* für jeden Sterntag. Hier sind die numerischen Werte von A, B, C und D mit ihren Differenzen gegeben und die kurzperiodischen Mondglieder A' und B' mit angeführt.

Beiden Tafeln ist in einer Spalte die dem festen Sternzeitmoment jedesmal entsprechende Welt-Zeit vorangestellt; man wird hiernach auf jeden beliebigen Zeitpunkt, gegeben durch Datum, Sternzeit und Längendifferenz gegen Greenwich, übergehen können. Eine weitere Spalte gibt die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres.

Die Reduktionsgrößen der *zweiten* Form: f, log g, G, log h, H, log i und i, sowie f', g' und G' sind auf S. 238*—255* von Tag zu Tag für 0^h Welt-Zeit gegeben.

Auch hier findet sich eine Spalte, t überschrieben, welche die seit Beginn des annus fictus verflossene Zeit in Bruchteilen des tropischen Jahres gibt. Ferner ist die Sternzeit Greenwich für 0^h Welt-Zeit gegeben.

Die Seiten mit ungerader Seitenzahl enthalten außer den schon erwähnten f', g', G' noch folgende Größen:

a) ψ = Allgemeine Präzession seit Jahresanfang.
b) $\Delta\psi$ = Langperiodische Glieder der Nutation in Länge.
c) $\Delta\psi'$ = Kurzperiodische Glieder der Nutation in Länge.
d) ε = Mittlere Schiefe der Ekliptik.
e) $\Delta\varepsilon$ = Langperiodische Glieder der Nutation in Schiefe.
f) $\Delta\varepsilon'$ = Kurzperiodische Glieder der Nutation in Schiefe.
g) Die Koeffizienten j und k, welche in den Formeln auf S. 267* vorkommen.

Die wahre Schiefe erhält man durch Addition der Gesamtnutation $(\Delta\varepsilon + \Delta\varepsilon')$ zu der mittleren Schiefe.

Auf S. 265* findet sich eine Tafel der Hilfsgrößen zur Berechnung der Präzession von verschiedenen mittleren Äquinoktien bis 1938.0.

S. 266* enthält eine Tafel der Hilfsgrößen zur Übertragung der Polsternörter von verschiedenen mittleren Äquinoktien auf das mittlere Äquinoktium 1938.0.

Auf S. 267* sind die Formeln zusammengestellt, mit welchen bei Anschlußbeobachtungen die gemessenen Koordinatendifferenzen der scheinbaren Örter in solche der mittleren Örter für den Jahresanfang übergeführt werden. Die in diesen Formeln auftretenden Koeffizienten j und k sind auf den Seiten 239*—255* enthalten und haben die Bedeutung

$$j = 15\, g \text{ arc } 1'$$
$$k = 15\, h \text{ arc } 1',$$

wobei g und h die auf den Seiten 238*—254* gegebenen Reduktionsgrößen sind.

S. 268* enthält eine Zusammenstellung der von der Deklination abhängenden Faktoren der Formeln auf S. 267*.

S. 269* enthält eine Tafel der numerischen Werte der Funktionen Sinus und Cosinus für in Zeit ausgedrückte Winkel. Ihre Benutzung erleichtert die Berechnung der Formeln auf S. 267*.

Die Seite 270* enthält eine Tafel zur Übertragung von Rektaszensions- und Deklinationsdifferenzen vom mittleren Äquinoktium 1938.0 auf das Normaläquinoktium 1950.0. Man findet die auf das Normaläquinoktium 1950.0 bezogene Koordinatendifferenz, indem man an die auf das mittlere Äquinoktium 1938.0 bezogene Rektaszensionsdifferenz die differentielle Präzession Δp_α^s und an die Deklinationsdifferenz die differentielle Präzession $\Delta p_\delta''$ anbringt:

$$\Delta p_\alpha^s = a_1 \operatorname{tg} \delta \cdot \Delta \alpha^m + a_2 \frac{1}{15} \sec^2 \delta \cdot \Delta \delta',$$
$$\Delta p_\delta'' = d_1 \cdot \Delta \alpha^m.$$

Die Koeffizienten a_1, a_2 und d_1 sind in der Tafel auf S. 270* enthalten und haben die Bedeutung

$$a_1 = (n) \text{ arc } 1' \cos \alpha$$
$$a_2 = (n) \text{ arc } 1' \sin \alpha$$
$$d_1 = -15\ (n) \text{ arc } 1' \sin \alpha.$$

$\Delta\alpha^m$ und $\Delta\delta'$ sind die auf das mittlere Äquinoktium 1938.0 bezogenen Rektaszensions- und Deklinationsdifferenzen in Zeit- bez. Bogenminuten. Nach den angegebenen Formeln findet man die differentielle Präzession für Rektaszension in Zeitsekunden, diejenige für Deklination in Bogensekunden.

Die auf Seite 271* gegebenen Größen f, log g und G dienen zur Übertragung der Örter von dem *mittleren* Normaläquinoktium 1950.0 auf das jedesmalige *wahre* Äquinoktium. Die Berücksichtigung des Einflusses der Variatio saecularis bei dieser Übertragung ist durch die Tafeln auf S. 272* und 273* gegeben. Diese enthalten in der ersten Reihe

einer jeden Vertikalspalte die Werte von 0.720 × Var. saec. für die mit den Argumenten α und δ gegebenen Örter. Die an zweiter Stelle stehenden Zahlen einer jeden Vertikalspalte sind die einjährigen Änderungen von 0.720 × Var. saec. und sind, wenn erforderlich, bei der Entnahme des Einflusses der Variatio saecularis für den in Frage kommenden Bruchteil des Jahres zu berücksichtigen.

Eine Tafel zur Übertragung von Sternörtern vom mittleren Äquinoktium 1938.0 auf das Normaläquinoktium 1950.0 befindet sich auf den Seiten 274*—276*.

Die hier tabulierten Größen sind gerechnet nach den Formeln:

$$A = (n^s) \sin a$$
$$D = (n'') \cos a$$
$$B = (m^s) - 0.00001818\,(n^s)^2 \sin 2a$$
$$\Delta C = \operatorname{arc} tg\, C - C; \quad C = A\, tg\,(\delta_{1938.0} + D)$$
$$P = -15\, tg\,\tfrac{1}{2}\psi; \quad tg\,\psi = \sin\,(n) \sin a\, tg\,(\delta_{1938.0} + D)$$
$$a = \alpha_{1938.0} + 90^0 - (N)$$

Wegen der Größen (m), (n), (N) vgl. S. [5] der „Grundbegriffe der Sphärischen Astronomie" im Jahrbuch für 1916. Falls die auf S. 276* gegebene Tafel für ΔC und P nicht ausreicht, berechne man die Größen nach den vorstehend gegebenen Formeln oder benutze die weiterreichende Tafel in Veröff. d. Astronom. Rech.-Inst. Nr. 49.

Sonnen- und Mondfinsternisse (S. 278*—283*).

Die bei den Sonnenfinsternissen gegebenen Besselschen Elemente dienen in der folgenden Weise zur Vorausberechnung der Phasenzeiten und der Positionswinkel der Kontakte:

Mit einer Ausgangszeit T (siehe weiter unten) entnimmt man der Elemententabelle die Werte:

x, y, log sin d, log cos d, μ, l ($l^{(a)}$ für äußere, $l^{(i)}$ für innere Berührung), log tang f ($f^{(a)}$ für äußere, $f^{(i)}$ für innere Berührung), x' und y'.

Mit ihnen rechnet man das folgende Formelsystem durch:

$$(1)\quad \begin{cases} \xi = c\cos\varphi\sin(\mu-\lambda) \\ \eta = s\sin\varphi\cos d - c\cos\varphi\sin d\cos(\mu-\lambda) \\ \zeta = s\sin\varphi\sin d + c\cos\varphi\cos d\cos(\mu-\lambda) \\ \xi' = [7.6398-10]\, c\cos\varphi\cos(\mu-\lambda) \\ \eta' = [7.6398-10]\, \xi\sin d, \end{cases}$$

worin φ die geographische Breite, λ die westliche Länge (von Greenwich) des Beobachtungsortes bezeichnen, s und c aus der Tafel auf S. 338* zu entnehmen sind.

Alsdann:

$$(2)\quad \begin{cases} \left.\begin{array}{l} m\sin M = x - \xi \\ m\cos M = y - \eta \end{array}\right\} m > 0 \\ \left.\begin{array}{l} n\sin N = x' - \xi' \\ n\cos N = y' - \eta' \end{array}\right\} n > 0 \end{cases}$$

Nun berechnet man aus:

(3) $L = l - \zeta \text{ tang } f$

$L^{(a)}$ mit $l^{(a)}$ und $f^{(a)}$, $L^{(i)}$ mit $l^{(i)}$ und $f^{(i)}$; dann aus:

(4) $\sin \psi = \frac{m \sin (M - N)}{L}$ [1])

mit $L^{(a)}$ und $L^{(i)}$ je zwei Werte $\psi^{(a_1)}$, $\psi^{(a_2)}$ und $\psi^{(i_1)}$, $\psi^{(i_2)}$, von denen der eine zum Eintritt der Erde in den Halb- oder Kernschatten-Kegel, der andere zu ihrem Austritt aus ihm gehört. Diesen vier Werten $\psi^{(a_1)}$, $\psi^{(a_2)}$ und $\psi^{(i_1)}$, $\psi^{(i_2)}$ entsprechen vier Werte $\tau^{(a_1)}$, $\tau^{(a_2)}$ und $\tau^{(i_1)}$, $\tau^{(i_2)}$ (in Zeitminuten) nach

$$(5)\quad \tau = -\frac{m \cos (M - N)}{n} + \frac{L \cos \psi}{n},$$

um welche die Ausgangszeit T zu verbessern ist, um die Zeit der gesuchten Phase zu erhalten. Ist T die gesuchte Phasenzeit, so wird $\tau = 0$ werden. Man muß daher das Formelsystem (1) bis (5) mit steigenden Näherungen solange durchrechnen, bis dieser Fall eintritt, d. h. bis das Formelsystem sich schließt. Zu diesem Zweck beginnt man mit einem Näherungswert T_1, für den man, wenn kein besserer bekannt sein sollte, eine beliebige Zeit nahe der Mitte der Finsternis nehmen mag, und rechnet die erste genäherte Korrektion τ_1; dann wiederholt man die Rechnung mit $T_2 = T_1 + \tau_1$, dann mit $T_3 = T_2 + \tau_2 = T_1 + \tau_1 + \tau_2$ usf. bis sich $\tau_n = 0$ ergibt. T_n ist dann die gesuchte Welt-Zeit des Kontaktes, die durch Hinzufügung der Längendifferenz in mittlere Ortszeit zu verwandeln ist. Die Rechnung ist für jede Berührung gesondert durchzuführen.

Die Positionswinkel der einzelnen Phasen, in üblicher Weise vom Punkt größter Deklination nach Osten gezählt, folgen aus den Werten der letzten Näherung (Größen mit dem Index n) nach

$$P = N + \psi.$$

Will man den Winkelabstand Q vom Punkte der größten Höhe haben, so hat man von P noch den parallaktischen Winkel γ abzuziehen, der aus

$$\left.\begin{array}{l} p \sin \gamma = \xi \\ p \cos \gamma = \eta \end{array}\right\} p > 0$$

folgt, also

$$Q = P - \gamma.$$

Um die Zeit der größten Phase, $T_{\max}$, zu erhalten, hat man die beiden Formelsysteme (1) und (2) mit einem Näherungswerte T_1 durchzurechnen, daraus $T_2 = T_1 - \frac{m \cos (M - N)}{n}$ zu entnehmen und die Rechnung solange fortzusetzen, bis die Korrektion der Ausgangszeit 0 wird. Als Näherungswert T_1 wählt man zweckmäßig das Mittel der beiden Werte von T_2 für die Berührungszeiten.

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[1]) Wird der Winkel ψ bei der ersten Näherungsrechnung imaginär, so rechne man τ unter der Annahme $\psi = 90^\circ$ aus $\tau = -\frac{m \cos (M - N)}{n}$; bleibt ψ auch in der weiteren Rechnung imaginär, so deutet dies an, daß an dem betreffenden Orte keine Sonnenfinsternis stattfindet.

Die Größe der Verfinsterung i, in Teilen des Sonnendurchmessers ausgedrückt, ergibt sich dann aus:

$$i = \frac{L^{(a)} - m}{2\,L^{(a)} - 0.5450}$$

worin $L^{(a)}$ und m die zur Zeit $T_{\max}$ gehörigen Werte bedeuten.

Sternbedeckungen (S. 284*—292*).

Auf den Seiten 284*—292* sind Angaben über die Stern- und Planetenbedeckungen enthalten, die in Berlin-Babelsberg, Breslau, Frankfurt a. M., Königsberg und München sichtbar sind. Außer der genäherten Welt-Zeit des Ein- und Austrittes ist unter P der Positionswinkel des Sterns für die Zeiten der Berührung mit dem Mondrande angeführt.

Die Größen a und b ermöglichen die Vorausberechnung der genäherten Ein- oder Austrittszeiten für andere Orte innerhalb Deutschlands, die nicht allzuweit von den angeführten fünf Hauptpunkten entfernt sind. Bezeichnen λ und φ die geographischen Koordinaten des Beobachtungsortes, λ_0 und φ_0 diejenigen des ihm am nächsten gelegenen Hauptpunktes, so ist die gesuchte Berührungszeit gleich der für den Hauptpunkt geltenden $+ a\,(\lambda - \lambda_0) + b\,(\varphi - \varphi_0)$. Hierbei sind die Differenzen $\lambda - \lambda_0$ und $\varphi - \varphi_0$ in Einheiten des Grades unter Mitnahme der Zehntelgrade auszudrücken, damit sich die Korrektion in Zeitminuten ergibt.

Die Angaben über Sternbedeckungen, sind von dem Nautical Almanac Office, London, zur Verfügung gestellt worden.

Mondbewegung und Lage des Mondäquators gegen den Erdäquator (S. 293*).

Auf S. 293* finden sich:

- ☊, Aufsteigender Knoten der Mondbahn auf der Ekliptik,
- $L_☾$, Mittlere Länge des Mondes,
- $M_☾$, Mittlere Anomalie des Mondes,
- i, Neigung des Mondäquators gegen den Erdäquator,
- ☊′, Aufsteigender Knoten des Mondäquators auf dem Erdäquator,
- Δ, Stück des Mondäquators zwischen Ekliptik und Erdäquator,

☋, der aufsteigende Knoten des Mondäquators auf der Ekliptik, ist gleich dem absteigenden Knoten der Mondbahn, also

$$☋ = ☊ \pm 180°.$$

Vom Jahrgang 1926 ab sind die Brownschen Mondtafeln verwendet. Die Größen i, Δ und ☊′ berechnen sich aus:

$$\sin\frac{1}{2}(\Delta + ☊')\cos\frac{1}{2}i = \cos\frac{1}{2}(\varepsilon - J)\sin\frac{1}{2}☋$$

$$\cos\frac{1}{2}(\Delta + ☊')\cos\frac{1}{2}i = \cos\frac{1}{2}(\varepsilon + J)\cos\frac{1}{2}☋$$

$$\sin \frac{1}{2}(\Delta - \Omega') \sin \frac{1}{2} i = \sin \frac{1}{2}(\varepsilon - J) \sin \frac{1}{2} \mho$$

$$\cos \frac{1}{2}(\Delta - \Omega') \sin \frac{1}{2} i = \sin \frac{1}{2}(\varepsilon + J) \cos \frac{1}{2} \mho;$$

dabei ist J, die Neigung des Mondäquators gegen die Ekliptik, nach F. Hayn (Astr. Nachr. Bd. **199**, S. 263) zu $J = 1° 32' 20''$ angenommen worden. Die Zahlen geben die Lage des mittleren Mondäquators (ohne physische Libration).

Die auf S. 293* gemachten Angaben über die Elemente der Mondbahn und des Mondäquators werden, teilweise in Verbindung mit den Größen $L_\odot$ und $M_\odot$ auf S. 29, zu verschiedenen Zwecken verwendet:

1) Als Argumente für die Berechnung der Reduktionsgrößen A, B, C, D, E, A', B'.

2) Bei Bestimmung der selenographischen Koordinaten von Punkten der Mondoberfläche (siehe darüber den folgenden Abschnitt).

3) Bei Berechnung der *optischen* und *physischen* Libration des Mondes.

a) Für die Berechnung der *optischen* Libration des Mondes sind alle nötigen Angaben in den Erläuterungen zu den Hilfstafeln unter Nr. 8 (S. 366*) gemacht.

b) Die Beträge der *physischen* Mondlibration in selenographischer Länge, der Neigung des Mondäquators und seinem aufsteigenden Knoten auf der Ekliptik τ, ρ, σ haben die Werte:

$$\tau = - 13'' \sin M_☾ + 65'' \sin M_\odot + 26'' \sin 2(L_☾ - M_☾ - \Omega)$$
$$\rho = -106'' \cos M_☾ + 34'' \cos(2L_☾ - M_☾ - 2\Omega) - 11'' \cos 2(L_☾ - \Omega)$$
$$\sigma \sin J = -108'' \sin M_☾ + 34'' \sin(2L_☾ - M_☾ - 2\Omega) - 11'' \sin 2(L_☾ - \Omega)$$

Diese Zahlenangaben beruhen auf der Annahme $f = 0.73$, worüber F. Hayn (Astr. Nachr. Bd. **199**, S. 264) einzusehen ist.

Ephemeride für den Mondkrater Mösting A.

(S. 294*—298*).

Die Ephemeride des Mondkraters Mösting A. dient zwei verschiedenen Zwecken: erstens zur genauen Bestimmung von Mondörtern am Himmel durch Beobachtung des Kraters, zweitens zur Bestimmung der selenographischen Koordinaten weiterer Punkte der Mondoberfläche durch deren mikrometrischen Anschluß an Mösting A.

Sie gilt für 0^h Welt-Zeit und enthält für die Tage, an welchen Mösting A. innerhalb der Beleuchtungsgrenze liegt, die Unterschiede $\alpha_☾ - \alpha_k$ in Rektaszension und $\delta_☾ - \delta_k$ in Deklination zwischen der Mondmitte und dem Krater, vom Erdmittelpunkt aus gesehen, sowie den Logarithmus des Sinus der Äquatorial-Horizontalparallaxe p_k des Kraters, welche von der des Mondes $p_☾$ zu unterscheiden ist, mit den zugehörigen Differenzen.

Zur Anwendung der Ephemeride auf Beobachtungen des Kraters interpoliere man $\alpha_{☾} - \alpha_k$, $\delta_{☾} - \delta_k$ und log sin p_k mit der Beobachtungszeit. Fügt man alsdann $\alpha_{☾} - \alpha_k$ und $\delta_{☾} - \delta_k$ zum geozentrischen Ort des Kraters (die Parallaxe wird mit p_k und δ_k, der Deklination des Kraters, berechnet), so hat man die geozentrische Rektaszension und Deklination des Mondes für die Beobachtungszeit.

Hat man einen Punkt der Mondoberfläche mikrometrisch an Mösting A. angeschlossen, so bestimme man zunächst die topozentrischen, d. h. mit Parallaxe behafteten Koordinatendifferenzen $\alpha'_{☾} - \alpha'_k$ und $\delta'_{☾} - \delta'_k$ zwischen Mondmittelpunkt und Mösting A. aus folgenden Identitäten:

$$\alpha'_{☾} - \alpha'_k = \alpha_{☾} - \alpha_k + (\alpha'_{☾} - \alpha_{☾}) - (\alpha'_k - \alpha_k)$$
$$\delta'_{☾} - \delta'_k = \delta_{☾} - \delta_k + (\delta'_{☾} - \delta_{☾}) - (\delta'_k - \delta_k).$$

Verbindet man die so erhaltenen topozentrischen Abstände zwischen der Mondmitte und Mösting A. mit den mikrometrischen Messungen zwischen Mösting A. und einem zweiten Krater, so erhält man die topozentrische Lage des letzteren gegen die Mondmitte und kann hieraus mit Hilfe von $\alpha'_{☾}$ und $\delta'_{☾}$ und den Angaben auf S. 293* die selenographische Länge und Breite des zweiten Kraters berechnen. Hierzu dienen die im folgenden angeführten Formeln.

Bezeichnet man mit α' und δ' die topozentrische AR. und Dekl. des an Mösting A. angeschlossenen Kraters, so hat man:

$$s \sin \pi_m = (\alpha' - \alpha'_{☾}) \cos \tfrac{1}{2} (\delta' + \delta'_{☾})$$
$$s \cos \pi_m = \delta' - \delta'_{☾}$$
$$\pi = \pi_m - \tfrac{1}{2} (\alpha' - \alpha'_{☾}) \sin \tfrac{1}{2} (\delta' + \delta'_{☾})$$
$$\sin (K + s) = \sin s \operatorname{cosec} h'.$$

h' ist der Abstand des Kraters vom Mondschwerpunkt, gesehen vom Beobachtungsort aus, der aus h, dem vom Erdmittelpunkt aus gesehenen Abstand, durch Anbringen der Parallaxe gewonnen wird. Ist die Entfernung des Kraters vom Mondschwerpunkt gänzlich unbekannt, so möge für h der aus Sternbedeckungen folgende Wert des Mondhalbmessers 15′ 32″.59 (nach J. Peters, Astr. Nachr. Bd. **138**, S. 147) eingesetzt werden.

$$\sin d = - \sin \delta'_{☾} \cos K + \cos \delta'_{☾} \sin K \cos \pi$$
$$\cos d \cos (a - \alpha'_{☾}) = - \cos \delta'_{☾} \cos K - \sin \delta'_{☾} \sin K \cos \pi$$
$$\cos d \sin (a - \alpha'_{☾}) = \sin K \sin \pi$$
$$\sin \beta = \sin d \cos i - \cos d \sin i \sin (a - ☊')$$
$$\cos \beta \sin \lambda' = \sin d \sin i + \cos d \cos i \sin (a - ☊')$$
$$\cos \beta \cos \lambda' = \cos d \cos (a - ☊')$$
$$\lambda = \lambda' - 180^\circ - L_{☾} - (\Delta - ☋).$$

Die so erhaltenen Werte von λ und β beziehen sich auf den mittleren (vom Einfluß der physischen Libration freien) Mondäquator; die Transformation auf den wahren erfolgt durch die Korrektionen:

$$d\lambda = +13'' \sin M_{☾} - 65'' \sin M_{\odot} - 26'' \sin 2\,(L_{☾} - M_{☾} - ☊)$$
$$+ \operatorname{tg}\beta\,[-106'' \cos(L_{☾} - M_{☾} - ☊ + \lambda)$$
$$+ 34'' \cos(L_{☾} - M_{☾} - ☊ - \lambda) - 11'' \cos(L_{☾} - ☊ - \lambda)]$$
$$d\beta = +108'' \sin(L_{☾} - M_{☾} - ☊ + \lambda) + 34'' \sin(L_{☾} - M_{☾} - ☊ - \lambda)$$
$$- 11'' \sin(L_{☾} - ☊ - \lambda)$$

Bringt man diese Korrektionen $d\lambda$ und $d\beta$ an λ und β an, so erhält man die selenographischen Koordinaten des Kraters:

$$\lambda_0 = \lambda + d\lambda, \qquad \beta_0 = \beta + d\beta$$

Der Berechnung der Ephemeride des Kraters Mösting A. liegen folgende von F. Hayn ermittelte Konstanten (Astr. Nachr. Bd. **199**, S. 263) zugrunde:

$$\lambda_0 = -5° \; 10' \; 7'', \quad \beta_0 = -3° \; 11' \; 2''$$
$$h = 15' \; 33''.4$$

Für die Reduktion auf den mittleren Mondäquator wurden die Werte angenommen:

$$d\lambda = -13'' \sin M_{☾} + 65'' \sin M_{\odot} + 26'' \sin 2\,(L_{☾} - M_{☾} - ☊)$$
$$d\beta = -107'' \sin(L_{☾} - M_{☾} - ☊ + \lambda_0) - 34'' \sin(L_{☾} - M_{☾} - ☊ - \lambda_0)$$
$$+ 11'' \sin(L_{☾} - ☊ - \lambda_0),$$

so daß die auf den mittleren Mondäquator bezogenen selenographischen Koordinaten des Kraters Mösting A. sind:

$$\lambda = \lambda_0 + d\lambda, \qquad \beta = \beta_0 + d\beta.$$

Die Formeln zur Berechnung der Ephemeride siehe in den Erläuterungen zum Jahrbuch 1916.

Jupitertrabanten (S. 299*—300*).

Die Seiten 299* und 300* enthalten die Zeitangaben (in Welt-Zeit) für die Verfinsterungen der vier hellen Jupitertrabanten in dem Schattenkegel des Jupiter; Ein- und Austritte sind durch beigefügtes E. und A. unterschieden.

Saturnsring (S. 301*—302*, 305*).

Die Angaben für die scheinbare Größe des Saturn und für die Lage und Größe des Saturnsringes haben die folgende Bedeutung:

α Große Achse des Saturn.

β Kleine Achse des Saturn.

p_α Phase; positiv, wenn der Ostrand, negativ, wenn der Westrand verdunkelt ist.

a Große Achse der Ringellipse.

b Kleine Achse der Ringellipse; positiv, wenn die nördliche, negativ, wenn die südliche Fläche des Ringes sichtbar ist.

U' Heliozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes in der Ekliptik an.

B' Erhöhungswinkel der Sonne über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P' Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Längenkreise; östlich positiv, westlich negativ.

U Geozentrische Länge des Saturn, gezählt auf der Ringebene vom aufsteigenden Knoten des Ringes im Erdäquator an.

B Erhöhungswinkel der Erde über der Ringebene vom Saturn aus gesehen; nördlich positiv, südlich negativ.

P Winkel der kleinen Achse der Ringellipse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise; östlich positiv, westlich negativ.

N Aufsteigender Knoten der Ringebene im Erdäquator, gezählt vom Äquinoktium an.

J Neigung der Ringebene gegen den Erdäquator.

ω Entfernung der Ekliptik vom Erdäquator, gemessen auf der Ringebene.

Es liegen folgende Bestimmungen nach H. Struve zugrunde:

Durchmesser des Saturn in der Entfernung 9.53887

Äquatorial $17''.47$ Polar $15''.65$

Durchmesser des Ringes in der Entfernung 9.53887

$$2\,R = 39''.35$$

Lage des Saturnsringes gegen die Ekliptik und das Äquinoktium von 1889.25 nach G. Struve

$$\Omega_1 = 167°\ 58'.08 \quad \text{und} \quad i_1 = 28°\ 4'.55$$

Saturnstrabanten (S. 303*—312*).

Die Berechnungen der Saturnstrabanten Mimas bis Rhea sind mit den von G. Struve in den Veröffentlichungen der Universitätssternwarte Berlin-Babelsberg, Bd. VI, Heft 4 abgeleiteten Elementen durchgeführt worden. Für Titan und Japetus sind die von ihm in Bd. VI, Heft 5 angegebenen Elemente benutzt worden, und für Hyperion haben die von J. Woltjer in den Annalen der Sternwarte Leiden, Bd. 16, Teil 3 bestimmten Elemente als Grundlage gedient.

Die den Ephemeriden zugrunde liegenden Elemente sind:

MIMAS (Berlin-Bbg. VI, Heft 4)
Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$$E_0 = 127° \; 5'.5$$
$$n = 381°.994442$$
$$\delta l = -44°.390 \sin [5°.0864 (\tau - 1866.27)] - 0°.764 \sin 3 [5°.0864 (\tau - 1866.27)]$$
$$l_1 = E_0 + nt_d + \delta l$$
$$\Theta = 56°.1 - 365°.23\, t$$
$$\gamma = 1° \; 31'.0$$
$$\Pi_1 = 105°.0 + 365°.60\, t$$
$$e = 0.0201$$
$$a = 26''.826$$

ENCELADUS (Berlin-Bbg. VI, Heft 4)
Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$$E_0 = 199° \; 25'.8$$
$$n = 262°.7319405$$
$$\delta l = +14'.39 \sin (63°.75 + 32°.51\, t) + 14'.06 \sin (117°.28 + 93°.14\, t)$$
$$l_1 = E_0 + nt_d + \delta l$$
$$\Theta = 51°.81 - 152°.7\, t$$
$$\gamma = 1'.4$$
$$\Pi_1 = 308°.38 + 123°.43\, t$$
$$e = 0.00444$$
$$a = 34''.416$$

TETHYS (Berlin-Bbg. VI, Heft 4)
Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$$E_0 = 284° \; 28'.3$$
$$n = 190°.697950$$
$$\delta l = +2°.065 \sin [5°.0864 (\tau - 1866.27)] + 0°.036 \sin 3 [5°.0864 (\tau - 1866.27)]$$
$$l_1 = E_0 + nt_d + \delta l$$
$$\Theta = 110°.39 - 72°.25\, t$$
$$\gamma = 1° \; 5'.56$$
$$e = 0.0000$$
$$a = 42''.605$$

DIONE (Berlin-Bbg. VI, Heft 4)
Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$$E_0 = 253° \; 52'.0$$
$$n = 131°.5349729$$
$$\delta l = -0'.93 \sin (63°.75 + 32°.51\, t) - 0'.91 \sin (117°.28 + 93°.14\, t)$$
$$l_1 = E_0 + nt_d + \delta l$$

$$\Theta = 201\overset{\circ}{.}0 - 31\overset{\circ}{.}0\, t$$
$$\gamma = 1\overset{\prime}{.}4$$
$$\Pi_1 = 173\overset{\circ}{.}4 + 30\overset{\circ}{.}75\, t$$
$$e = 0.00221$$
$$a = 54\overset{\prime\prime}{.}567$$

RHEA (Berlin-Bbg. VI, Heft 4)
Epoche: 1889 April 0.0 Mittl. Zt. Grw.

$$E_0 = 358^\circ\ 23\overset{\prime}{.}7$$
$$n = 79\overset{\circ}{.}6900881$$
$$l = E_0 + nt_d$$
$$(\Omega - \Omega_1) \sin i_1 = 20\overset{\prime}{.}49 \sin (344\overset{\circ}{.}09 - 10\overset{\circ}{.}20 t) - 0\overset{\prime}{.}38 + 1\overset{\prime}{.}00 \sin (48\overset{\circ}{.}5 - 0\overset{\circ}{.}50 t)$$
$$i - i_1 = 20\overset{\prime}{.}49 \cos (344\overset{\circ}{.}09 - 10\overset{\circ}{.}20 t) - 2\overset{\prime}{.}79 + 1\overset{\prime}{.}00 \cos (48\overset{\circ}{.}5 - 0\overset{\circ}{.}50 t)$$
$$\Pi = 275\overset{\circ}{.}85 + 0\overset{\circ}{.}53\, t + 17\overset{\circ}{.}64 \sin [9\overset{\circ}{.}5\, (\tau - 1879.59)]$$
$$e = 0.00098 + 0.00030 \cos [9\overset{\circ}{.}5\, (\tau - 1879.59)]$$
$$a = 76\overset{\prime\prime}{.}203$$

Ω_1 und i_1 bezeichnen die Lage des Saturnsringes.

TITAN (Berlin-Bbg. VI, Heft 5)
Epoche: 1890 Jan. 0.0 Mittl. Zt. Grw.

$$E_0 = 260^\circ\ 24\overset{\prime}{.}26$$
$$n = 22\overset{\circ}{.}577015$$
$$l = E_0 + nt_d + (E - E_0)$$
$$E - E_0 = + 4\overset{\prime}{.}39 \sin (40\overset{\circ}{.}69 - 0\overset{\circ}{.}506\, t)$$
$$\Omega = 167^\circ\ 51\overset{\prime}{.}90 + 39\overset{\prime}{.}00 \sin (40\overset{\circ}{.}69 - 0\overset{\circ}{.}506\, t)$$
$$i = 27^\circ\ 26\overset{\prime}{.}33 + 18\overset{\prime}{.}35 \cos (40\overset{\circ}{.}69 - 0\overset{\circ}{.}506\, t)$$
$$\Pi = 276^\circ\ 7\overset{\prime}{.}7 + 31\overset{\prime}{.}41\, t + 22\overset{\prime}{.}0 (\sin 2g - \sin 2g_0)$$
$$e = 0.02910 + 0.000186 (\cos 2g_0 - \cos 2g)$$
$$g = \Pi - \Omega - 4\overset{\circ}{.}5$$
$$g_0 = g \text{ für } t = 0$$
$$a = 176\overset{\prime\prime}{.}578$$

HYPERION (J. Woltjer, Ann. Sternwarte Leiden Bd. XVI, 3, S. 64)
Anfangsepoche für t_d: 1900 Januar 0.0 Mittl. Zt. Grw.
„ „ t : 1900.0
Argumente: $\sigma = 93\overset{\circ}{.}13 + 0\overset{\circ}{.}562039\, t_d$ $\quad \tilde{\omega} = 148\overset{\circ}{.}72 - 19\overset{\circ}{.}184\, t$

$$n = 16\overset{\circ}{.}9199896$$
$$l = 176\overset{\circ}{.}293 + 16\overset{\circ}{.}9199896\, t_d + 9\overset{\circ}{.}092 \sin \sigma + 0\overset{\circ}{.}211 \sin (\tilde{\omega} + \sigma) + 0\overset{\circ}{.}192 \sin (\tilde{\omega} - \sigma) - 0\overset{\circ}{.}077 \sin \tilde{\omega}$$
$$\Pi = 70\overset{\circ}{.}05 - 18\overset{\circ}{.}6562\, t - 13\overset{\circ}{.}67 \sin \tilde{\omega} + 0\overset{\circ}{.}93 \sin 2\tilde{\omega} - 0\overset{\circ}{.}47 \sin \sigma$$
$$e = 0.10419 + 0.02414 \cos \tilde{\omega} - 0.00401 \cos \sigma - 0.00183 \cos 2\tilde{\omega}$$
$$a = 214\overset{\prime\prime}{.}32 - 0\overset{\prime\prime}{.}74 \cos \sigma$$

$$\gamma \sin h = -0{,}^\circ 061 + 0{,}^\circ 574 \sin[-2{,}^\circ 392\, t + 95{,}^\circ 9\,] + 0{,}^\circ 315 \sin[-0{,}^\circ 500\, t + 42{,}^\circ 78]$$

$$\gamma \cos h = -0{,}^\circ 747 + 0{,}^\circ 574 \cos[-2{,}^\circ 392\, t + 95{,}^\circ 9\,] + 0{,}^\circ 315 \cos[-0{,}^\circ 500\, t + 42{,}^\circ 78]$$

γ = Neigung der Bahnebene gegen den Saturnsäquator,
h = Länge des aufsteigenden Knotens auf dem Saturnsäquator, gezählt vom aufsteigenden Knoten des Saturnsäquators auf der Ekliptik.

JAPETUS (Berlin-Bbg. VI, Heft 5)
Epoche: 1885 Sept. 1.0 Mittl. Zt. Grw.

$E_0 = 75^\circ\ 25'\!.61$	$i = 18^\circ\ 26'\!.39 - 0'\!.54\, t$
$n = 4{,}^\circ 537995$	$\Pi = 354^\circ\ 27'\!.4 + 8'\!.1 . t$
$l = E_0 + nt_d$	$e = 0.02828$
$\Omega = 142^\circ\ 11'\!.3 - 1'\!.375\, t$	$a = 514''\!.59$

Hierin bedeuten:

l_1, l = Mittlere Länge in der Bahn
n = Tropische mittlere tägliche Bewegung
δl = Libration
τ = Epoche
t_d = Anzahl der Tage seit der Anfangsepoche
t = Anzahl der Jahre seit der Anfangsepoche
Θ = Knoten auf dem Saturnsäquator
Ω = Knoten auf der Ekliptik
γ = Neigung der Trabantenbahn gegen den Saturnsäquator
i = Neigung der Trabantenbahn gegen die Ekliptik
Π_1, Π = Perisaturnium
e = Exzentrizität
a = Halbachse der Trabantenbahn in der mittleren Entfernung $(\Delta) = 9.53887$

l_1, Π_1 und Θ werden gezählt vom Äquinoktium aus in der Ekliptik, weiter im Saturnsäquator und dann erst in der Trabantenbahn, l und Π vom Äquinoktium aus in der Ekliptik und weiter in der Trabantenbahn.

Auf den Seiten 303*—305* sind die Hilfsmittel gegeben, um in bequemer Weise die Positionen der Trabanten ableiten zu können. Sieht man hierbei von den Neigungen γ ab, so erhält man die rechtwinkligen Koordinaten x und y des Trabanten in bezug auf ein Achsenkreuz, dessen Anfangspunkt im Mittelpunkt des Saturn gelegen ist, dessen X-Achse parallel der großen Achse des Ringes verläuft, positiv, wenn östlich, negativ, wenn westlich vom Saturn, und dessen positive Y-Achse mit dem durch den Saturnsmittelpunkt gehenden Stundenkreise den Winkel P einschließt, aus den Gleichungen:

$$x = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin(u-U)$$

$$y = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin B \cos(u-U).$$

$(\Delta) = 9.53887$ bezeichnet den mittleren Wert der Entfernung Sonne—Saturn, Δ ist die Entfernung Erde—Saturn, $u = L + (v - M)$ ist die wahre Länge des Trabanten vom Erdäquator an gezählt.

$\log \frac{1}{1+\zeta}$ ist auf Seite 305* enthalten.

Ist genaueste Ortsbestimmung erforderlich, so darf man bei Mimas, Tethys und Rhea die Neigungen gegen den Saturnsäquator, da sie schon merklichere Werte annehmen, nicht mehr vernachlässigen; x und y ergeben sich dann aus:

$$x = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin(u - U)$$

$$y = \frac{a(\Delta)}{\Delta} \frac{1}{1+\zeta} \frac{r}{a} \sin B [\cos(u - U) + \sin\gamma \operatorname{cotg} B \sin(u - \vartheta)].$$

Die Werte von ϑ, der Länge des aufsteigenden Knotens der Trabantenbahn auf dem Saturnsäquator, gezählt vom Schnittpunkte des Saturnsäquators mit dem Erdäquator, finden sich für die fünf inneren Trabanten auf Seite 305*; auch ist hier für Rhea γ, weil stärker mit der Zeit veränderlich, in Intervallen von 16 Tagen gegeben.

Will man aus x und y die Rektaszensions- und Deklinationsdifferenzen bestimmen, so dienen dazu die Gleichungen:

$$s \sin(p - P) = x$$
$$s \cos(p - P) = y$$

$$\Delta\alpha = \alpha_{tr} - \alpha_{pl} = \frac{1}{15} s \sin p \sec \delta_{tr}$$
$$\Delta\delta = \delta_{tr} - \delta_{pl} = s \cos p.$$

Auf den Seiten 306*—308* finden sich, außer den Hilfsgrößen U, B und P, für die Trabanten Titan, Hyperion und Japetus die genäherten Rektaszensions- und Deklinationsunterschiede gegen den Saturn in dem Sinne Trabant minus Planet für die beiden letzteren Trabanten.

Die aus den Angaben des Berliner Jahrbuchs ermittelten Trabantenörter sind auf das mittlere Äquinoktium der Epoche bezogen.

Zum Schluß enthalten die Seiten 309*—312* die Zeitangaben (in Welt-Zeit) für die östlichen Elongationen von Mimas, Enceladus, Tethys, Dione, Rhea, ferner für die östlichen und westlichen Elongationen ($u - U = \pm 90°$) und für die oberen und unteren Konjunktionen ($u - U = 0°, 180°$) von Titan, Hyperion und Japetus mit Saturn; diese Zeitangaben für die Elongationen und Konjunktionen sind bereits für Lichtzeit korrigiert, also ohne weiteres mit den Beobachtungen vergleichbar.

Konstellationen (S. 313*—314*).

In der Übersicht der Konstellationen des Jahres 1938 sind die hauptsächlichsten Planeten-Konstellationen gegeneinander und gegen Sonne und Mond, sowie die Angaben der Epochen, zu welchen sich

die Planeten in gewissen Hauptpunkten ihrer Bahn und ihres synodischen Laufes befinden, zusammengestellt. Die Bedeutung der hier verwendeten Zeichen siehe Seite VIII des Vorworts. — Die Konjunktionen der Planeten mit dem Mond und ihre gegenseitigen sind als Konjunktionen in AR. zu verstehen. Die Angaben über Konjunktion und Opposition der Planeten mit der Sonne entsprechen den Zeiten, zu denen der Längenunterschied zwischen Planet und Sonne 0° oder 180° ist.

Hilfstafeln (S. 315*—338*).

Es folgt eine Reihe von häufig gebrauchten Hilfstafeln.

1) Tafeln für Präzessionswerte (S. 315*—317*).

a) Präzession in Rektaszension und Deklination (Seite 315*)

$$p_\alpha = m + \tfrac{1}{15} n \sin\alpha \operatorname{tg}\delta$$
$$p_\delta = n \cos\alpha$$

b) Präzessionswerte m, n, ψ, π, Π und ε, die mittlere Schiefe der Ekliptik (Seite 315*).

Mit diesen Werten berechnet sich die Präzession für die Elemente einer Bahnebene im System der Ekliptik nach:

$$p_{\Omega} = \psi - \pi \operatorname{cotg} i \sin(\Pi - \Omega)$$
$$p_i = -\pi \cos(\Pi - \Omega)$$
$$p_\omega = \pi \operatorname{cosec} i \sin(\Pi - \Omega)$$

und im System des Äquators nach:

$$p_{\Omega'} = m - n \operatorname{cotg} i' \cos\Omega'$$
$$p_{i'} = - n \sin\Omega'$$
$$p_{\omega'} = n \cos\Omega' \operatorname{cosec} i'$$

c) Präzession in Länge und Breite (Seite 316*—317*).

$$p_\lambda = \psi + \pi \operatorname{tg}\beta \cos(\Pi - \lambda)$$
$$p_\beta = \pi \sin(\Pi - \lambda)$$

Den Tafeln a) und c) liegen die Präzessionswerte für 1950.0 zugrunde. Über die Bedeutung der Bezeichnungen und die Zahlenwerte vergleiche die Erläuterungen zum Jahrbuch für 1916.

2) Hilfstafeln zur Verwandlung von Mittlerer Zeit in Sternzeit (S. 318*, 320*) und von Sternzeit in Mittlere Zeit (S. 319*, 321*).

3) Eine Tafel zur Verwandlung von Stunden, Minuten und Sekunden in Dezimalteile des Tages und umgekehrt (S. 322*—323*).

4) Eine Tafel für die Ermittelung eines Datums in der Julianischen Periode (Seite 324*—328*). Die Tafel besteht aus zwei Teilen. Der erste Teil (S. 324*—325*) gibt in vierjährigen Schaltperioden für die Jahre 0 bis 2000 die Anzahl der am 0. Januar, 12^h Welt-Zeit, seit Anfang der Julianischen Periode verflossenen Tage. Als Ergänzung gibt die Hilfstafel am Fuß der Seite die Anzahl der am 0. jedes Monats, 12^h Welt-Zeit, seit Beginn der Schaltperiode verflossenen Tage. Man gehe bis zum 4. Oktober des Jahres 1582 mit dem Datum des Julia-

nischen, für spätere Jahre mit dem Datum des Gregorianischen Kalenders in die Tafel ein. Der zweite Teil (S. 326*—328*) gibt für die Jahre 1860—1979 unmittelbar die Anzahl der im Gregorianischen Kalender am 0. eines jeden Monats, 12^h Welt-Zeit, seit Beginn der Julianischen Periode verflossenen Tage.

5) Eine Tafel zur Verwandlung von Minuten und Sekunden in Dezimalteile des Grades und umgekehrt (S. 329*).

6) Tafel des halben Tagbogens (S. 330*—331*), berechnet mit der Horizontalrefraktion 34'.9 für geographische Breiten von + 30° bis + 60° und Deklinationen von — 30° bis + 30°.

7) Reduktionstafeln für die Auf- und Untergangszeiten der Sonne und des Mondes (S. 332*—335*). Sie geben die Reduktion der für + 50° Breite gültigen Zeiten, wie sie in den Ephemeriden enthalten sind, auf geographische Breiten zwischen + 30° und + 60° und sind für das Erscheinen oder Verschwinden des oberen Gestirnsrandes gerechnet.

8) Die Tafel zur Berechnung der optischen Mondlibration (S. 336*—337*) gibt mit dem Argument $\lambda - \Omega$ die Werte $\Delta\lambda$, a und B entsprechend den Gleichungen:

$$\Delta\lambda = \frac{1}{\text{arc } 1'} \text{tang}^2 \frac{1}{2} J \sin 2 (\lambda - \Omega)$$

$$a = -\cos (\lambda - \Omega) \sin J$$

$$\text{tang } B = -\sin (\lambda - \Omega) \text{ tang } J$$

J = Neigung des Mondäquators gegen die Ekliptik.

Ω = Länge des aufsteigenden Knotens der Mondbahn auf der Ekliptik (s. S. 293*).

λ, β = Länge und Breite des Mondmittelpunktes, berechnet für den Beobachtungsort.

Bezeichnen noch $L_☾$ die mittlere Länge des Mondes, l' und b' die optische Libration der Mondmitte in selenographischer Länge und Breite, so ist:

$$l' = \lambda - L_☾ + \Delta\lambda - a (B - \beta)$$

$$b' = B - \beta$$

Der Winkel C, welchen der Mondmeridian des Mittelpunktes der scheinbaren Mondscheibe mit dem Stundenkreise bildet, ergibt sich aus der Gleichung:

$$\sin C = -\sin i \frac{\cos (L_☾ + l' + \Delta - ☋)}{\cos \delta_☾} = -\sin i \frac{\cos (\alpha_☾ - \Omega')}{\cos b'},$$

worin $\alpha_☾$, $\delta_☾$ Rektaszension und Deklination des Mondmittelpunktes gesehen vom Beobachtungsort aus, bezeichnen; die anderen vorkommenden Größen i, Δ, ☋ und Ω' haben schon auf S. 356* ihre Erklärung gefunden.

9) Eine Tafel der Hilfsgrößen s und c (S. 338*) zur Berechnung der geozentrischen Breite φ' und der geozentrischen Entfernung ρ eines

Erdortes, ausgedrückt in Einheiten der großen Halbachse des Erdellipsoids, aus der geographischen Breite φ nach den Formeln:

$$\varrho \sin \varphi' = s \sin \varphi$$
$$\varrho \cos \varphi' = c \cos \varphi$$

Darin haben s und c die Bedeutung:

$$s = \frac{1-e^2}{\sqrt{1-e^2 \sin^2 \varphi}}, \quad c = \frac{1}{\sqrt{1-e^2 \sin^2 \varphi}}, \quad e = \sqrt{2\alpha - \alpha^2}.$$

Gemäß den Beschlüssen der Pariser Ephemeridenkonferenz von 1911 ist dabei die Abplattung $\alpha = \frac{1}{297}$ angenommen.

Koordinaten der Sternwarten (S. 339*—345*).

Die Seiten 339*—345* enthalten die geographischen und geozentrischen Koordinaten der Sternwarten.

Die Seehöhen sind in allen Fällen angegeben, wo sie sich einigermaßen sicher ermitteln ließen.

Die geographischen Längen sind auf den Meridian von Greenwich bezogen und dem entsprechend ist die »Korrektion der Sternzeit« die Differenz: Orts-Sternzeit in mittlerer Mitternacht minus Greenwicher Sternzeit in mittlerer Mitternacht.

Die geozentrischen Koordinaten sind den Beschlüssen der Pariser Ephemeridenkonferenz vom Oktober 1911 gemäß unter Annahme der Abplattung 1 : 297 berechnet.

Bei Berechnung von log ϱ ist die Seehöhe berücksichtigt.

Normalzeiten der wichtigeren Länder (S. 346*).

Auf S. 346* sind die in den wichtigeren Ländern eingeführten Normalzeiten in zwei Gruppen zusammengestellt, je nachdem sie an den Meridian von Greenwich angeschlossen sind oder einen eigenen Landes-Meridian zugrunde legen.

Berichtigungen

Jahrbuch 1936, S. A59 Stern 1227 heißt *o* Velr anstatt 55 G. Velr; in Spalte PGC lies 2325 anstatt 2326.

Jahrbuch 1938, S. 43* Stern 109) ϱ Persei. Die Rektaszension am 35. Dezember ist $3^h\,1^m\,17^s\!.798$ anstatt $17^s\!.804$. Die vorhergehende Differenz wird 99 anstatt 93.

S. 96* Stern 456) δ Ursae maj. Deklination. Die Differenz zwischen Januar 31 und Februar 10 ist 100 anstatt 90.

S. 148* Stern 794) ν Aquarii. Die Deklination am 20. Februar ist $22''\!.31$ anstatt $21''\!.31$.

Nr.	Name im FK3	1938.5 Δα (0ˢ001)	1938.5 Δδ (0″01)
1	α Andr	− 61	+ 14
2	β Cass	− 68	+ 27
3	ε Phoe	+147	+137
4	22 Andr	− 83	+ 46
5	$\varkappa^2$ Scul	− 14	+137
6	ϑ Scul	+115	+ 92
7	γ Pegs	− 37	+ 55
8	†Br 6 Ceph *m*	−177	+ 23
9	ι Ceti	− 25	+ 45
10	ζ Tucn	+131	+113
11	β Hydi	+ 14	+ 60
12	α Phoe	+113	+155
13	12 Ceti	− 61	+ 41
14	49 G. Ceti	− 4	+ 90
15	λ^1 Phoe	+119	+108
16	ϰ Cass	−144	+ 13
17	ζ Cass	− 95	+ 18
18	π Andr	− 79	0
19	ε Andr	− 68	+ 31
20	δ Andr	− 56	− 28
21	α Cass	− 46	+ 24
22	β Ceti	0	+ 17
23	η Phoe	− 48	+181
24	21 Cass	+ 10	+ 24
25	o Cass	− 82	+ 36
26	λ^2 Scul	+126	+ 95
27	ζ Andr	− 41	+ 18
28	δ Pisc	− 24	+ 11
29	Br 82 Cass	−157	− 3
30	φ^2 Ceti[1])	− 30	+ 23
31	λ Hydi	−314	+ 9
32	γ Cass	− 92	+ 30
33	μ Andr	− 56	+ 10
34	λ^2 Tucn	+312	+ 41
35	α Scul	+ 67	+ 95
36	ε Pisc	− 42	− 4
37	26 Ceti	− 75	+ 29
38	†β Phoe *m*	+146	+156
39	ι Tucn	+ 13	+ 15
40	η Ceti	+ 30	+ 29

[1]) 19 Ceti

Nr.	Name im FK3	1938.5 Δα (0ˢ001)	1938.5 Δδ (0″01)
41	44 H. Ceph	− 92	− 41
42	β Andr	− 67	+ 8
43	τ Pisc	− 66	+ 64
44	102 G. Scul	+157	+ 29
45	υ Pisc	− 36	+ 15
46	ψ Cass	− 92	− 9
47	ϑ Ceti	− 31	− 4
48	δ Cass	− 82	− 6
49	γ Phoe	+108	+116
50	η Pisc	− 25	+ 31
51	40 Cass	−127	− 25
52	51 Andr[1])	− 38	+ 36
53	14 G. Hydi	− 39	+ 54
54	α Erid	− 26	+ 72
55	43 Cass	− 44	− 2
56	ν Pisc	− 53	+ 42
57	φ Pers	− 61	+ 31
58	129 G. Scul	+ 70	+ 38
59	τ Ceti	− 33	+ 46
60	o Pisc	− 38	+ 33
61	ε Scul	+ 69	+168
62	ζ Ceti	− 27	+ 19
63	ε Cass	− 99	+ 1
64	α Tria	− 64	+ 18
65	ξ Pisc	− 44	+ 71
66	β Aris	− 17	+ 11
67	ψ Phoe	+ 41	+129
68	χ Erid	+121	+185
69	η^2 Hydi	+ 24	+ 32
70	50 Cass	−110	+ 30
71	υ Ceti	− 26	+ 7
72	α Hydi	+ 71	+102
73	γ Andr *pr*	− 36	+ 56
74	α Aris	− 26	− 6
75	β Tria	− 56	+ 16
76	55 Cass	−106	− 8
77	Br 299 Andr[2])	− 79	+ 36
78	μ Forn	− 37	+ 72
79	γ Tria	− 59	0
80	67 Ceti	− 17	+ 37

[1]) υ Pers [2]) 6 Pers

Nr.	Name im FK3	1938.5	
		Δα $(0^{s}.001)$	Δδ $(0''.01)$
81	ϑ Aris	− 50	+ 33
82	φ Erid	+ 59	+110
83	κ Forn	− 18	+ 60
84	λ Horo	− 44	+ 46
85	ξ^2 Ceti	− 54	+ 19
86	κ Erid	+105	+120
87	36 H. Cass	−157	+ 18
88	λ^1 Forn	+ 98	+ 98
89	ν Aris	− 52	+ 21
90	μ Hydi	− 65	− 26
91	δ Ceti	− 48	+ 40
92	Br 366 Cass	− 45	+ 6
93	ϑ Pers	− 72	+ 45
94	35 Aris	− 39	+ 15
95	ε Hydi	− 12	+ 54
96	†γ Ceti	− 19	+ 14
97	π Ceti	− 35	− 6
98	μ Ceti	− 38	+ 14
99	η Pers	− 99	+ 19
100	41 Aris	− 55	+ 3
101	β Forn	+ 12	+ 41
102	τ^2 Erid	− 34	+ 88
103	τ Pers	− 59	+ 3
104	η Erid	− 38	+ 36
105	47 H. Ceph	−162	− 65
106	ϑ Erid *pr*	+106	− 1
107	α Ceti	− 17	+ 28
108	γ Pers	− 57	+ 21
109	ρ Pers	− 62	+ 2
110	μ Horo	+ 87	+ 78
111	β Pers	− 50	+ 28
112	ι Pers	− 67	+ 70
113	ϑ Hydi	+ 73	− 18
114	δ Aris	− 37	+ 1
115	48 H. Ceph	+ 67	− 62
116	94 Ceti	− 94	+ 24
117	†α Forn[1])	+ 34	+ 31
118	38 G. Horo	+ 75	+132
119	82 G. Erid[2])	− 34	+159
120	α Pers	− 40	+ 34

[1]) 12 Erid [2]) e Erid

Nr.	Name im FK3	1938.5	
		Δα $(0^{s}.001)$	Δδ $(0''.01)$
121	ο Taur	− 51	+ 38
122	2 H. Caml	− 72	− 38
123	ξ Taur	− 42	+103
124	σ Pers	− 71	+ 8
125	5 Taur[1])	− 34	+ 61
126	κ Reti	+192	+112
127	ε Erid	− 65	+ 52
128	45 G. Horo	+143	+ 23
129	Grb 716 Caml	− 82	− 25
130	110 G. Erid[2])	− 30	+ 20
131	δ Pers	− 64	+ 23
132	†ο Pers	− 54	+ 57
133	δ Forn	− 29	+ 83
134	ν Pers	− 64	+ 38
135	δ Erid	− 48	+ 3
136	17 Taur	− 59	+ 17
137	24 Erid	− 62	+ 41
138	γ Caml[3])	− 56	+ 17
139	η Taur	− 57	+ 30
140	τ^6 Erid	+ 2	− 18
141	β Reti	− 3	+129
142	27 Taur	− 47	+ 18
143	138 G. Erid[4])	− 70	+ 62
144	ζ Pers	− 68	+ 12
145	†9 H. Caml	− 57	+ 48
146	γ Hydi	+ 9	+ 62
147	ε Pers	− 68	+ 24
148	ξ Pers	− 84	+ 57
149	γ Erid	− 37	+ 41
150	λ Taur	− 38	+ 16
151	ν Taur	− 72	+ 75
152	48 Pers[5])	−113	+ 39
153	174 G. Erid	− 25	+ 1
154	o^1 Erid	− 67	+ 35
155	α Horo	+ 46	+101
156	α Reti	+ 35	+ 7
157	γ Dora	+ 84	+119
158	54 Pers	− 58	+ 1
159	γ Taur	− 49	+ 47
160	$†\upsilon^4$ Erid *m*	+ 32	+ 77

[1]) f Taur [2]) y Erid [3]) 5 H. Caml
[4]) g Erid [5]) c Pers

Nr.	Name im FK3	1938.5 $\Delta\alpha$ ($0^s.001$)	1938.5 $\Delta\delta$ ($0''.01$)	Nr.	Name im FK3	1938.5 $\Delta\alpha$ ($0^s.001$)	1938.5 $\Delta\delta$ ($0''.01$)
161	212 G. Erid	−138	−107	201	γ Orio	− 64	+ 50
162	δ Taur	− 58	+ 30	202	β Taur	− 69	+ 12
163	η Reti	− 45	+ 84	203	17 Caml	− 78	+ 10
164	ε Taur	− 75	+ 10	204	β Leps	− 79	+ 32
165	1 Caml *sq*	−114	+ 4	205	Grb 966 Caml	−143	+ 49
166	δ Mens	+139	− 22	206	δ Orio	− 43	+ 31
167	δ Cael	+ 5	+102	207	α Leps	− 48	+ 31
168	α Taur	− 40	+ 2	208	φ^1 Orio	− 57	+ 57
169	ν Erid	− 59	+ 25	209	ι Orio	− 72	+ 73
170	υ^2 Erid	− 6	− 32	210	ε Orio	− 49	+ 34
171	α Dora	−167	− 26	211	ζ Taur	− 74	+ 27
172	53 Erid	− 7	+ 44	212	β Dora	− 27	+ 42
173	Grb 848 Caml	− 38	+ 4	213	†σ Orio *m*	− 57	+ 31
174	τ Taur	− 91	+ 33	214	γ Mens	+ 90	− 33
175	4 Caml	− 33	+ 20	215	α Colm	− 25	+ 97
176	μ Erid	− 84	+ 22	216	ο Auri	− 98	+ 43
177	μ Mens	− 44	+ 16	217	γ Leps	− 89	+ 50
178	α Caml[1]	− 59	+ 10	218	130 Taur	−110	− 17
179	π^4 Orio	− 59	+ 74	219	ζ Leps	− 50	− 9
180	π^5 Orio	− 58	+ 48	220	κ Orio	− 55	+ 5
181	ι Auri	− 86	+ 16	221	ν Auri	− 54	− 23
182	β Caml[2]	− 90	− 4	222	δ Leps	− 35	+ 50
183	ε Auri	− 68	+ 63	223	β Colm	− 10	+ 10
184	ι Taur	− 97	+ 20	224	α Orio	− 43	− 12
185	η Auri	− 88	+ 41	225	δ Auri	− 79	− 27
186	ε Leps	− 59	+ 6	226	η Leps	− 69	− 1
187	η^2 Pict	+ 97	− 77	227	β Auri	−100	+ 39
188	β Erid	− 79	+ 22	228	†ϑ Auri	− 95	+ 29
189	ζ Dora	+ 86	+ 79	229	η Colm	−100	+ 91
190	λ Erid	− 69	+ 19	230	66 Orio	− 56	+ 62
191	19 H. Caml	+ 57	− 10	231	1 G. Pupp	− 76	+ 77
192	μ Auri	− 78	+ 3	232	ν Orio	−100	+ 60
193	α Auri	− 51	+ 44	233	36 Caml	+ 52	+ 15
194	β Orio	− 29	+ 7	234	22 H. Caml	− 98	− 2
195	τ Orio	− 48	+ 7	235	δ Pict	− 7	+110
196	ϑ Dora	− 82	− 30	236	†η Gemi	− 90	0
197	ο Colm	+ 1	− 58	237	2 Lync	−100	− 45
198	12 G. Colm	− 76	+ 55	238	κ Colm	− 95	+ 72
199	ζ Pict	− 30	+ 13	239	α Mens	+413	+ 50
200	†η Orio *m*	− 82	+ 17	240	ζ CMaj	− 30	+ 4

[1] 9 Caml [2] 10 Caml

Nr.	Name im FK3	1938.5 Δα $(0\overset{s}{.}001)$	1938.5 Δδ $(0\overset{''}{.}01)$
241	μ Gemi	− 90	− 10
242	ψ^1 Auri	−111	− 11
243	β C Maj	− 40	− 26
244	8 ε Mono[1])	− 85	+ 49
245	α Cari[2])	+ 27	+ 69
246	10 Mono	− 88	+ 4
247	8 Lync	− 79	− 5
248	23 H. Caml	− 29	+ 87
249	ξ^2 C Maj	− 50	+ 17
250	51 Auri	− 79	+ 2
251	γ Gemi	− 59	+ 12
252	ν Pupp[3])	− 58	+115
253	†S Mono	− 95	− 8
254	ε Gemi	− 97	− 6
255	ψ^5 Auri	−118	+ 56
256	ξ Gemi	− 78	+ 30
257	α C Maj *cg*	− 47	+ 12
258	18 Mono	−123	+ 51
259	43 Caml	−148	+ 19
260	24 H. Caml	− 89	+ 24
261	ϑ Gemi	−100	+ 25
262	α Pict	− 93	+ 62
263	τ Pupp[4])	− 61	+147
264	ζ Mens	+ 80	−176
265	†15 Lync *m*	−105	− 32
266	ϑ C Maj	− 59	+ 1
267	ι Voln	− 47	+ 26
268	ε C Maj	− 5	+ 10
269	ζ Gemi	− 88	+ 2
270	o^2 C Maj	− 43	+ 16
271	γ C Maj	− 96	+ 37
272	27 G. Cari	+ 55	+ 46
273	δ C Maj	− 9	+ 18
274	63 Auri	−108	− 16
275	J Pupp	+ 2	+ 40
276	64 Auri	−145	+ 62
277	λ Gemi	− 72	+ 37
278	π Pupp[5])	0	+ 64
279	δ Gemi	− 99	− 24
280	19 Lync *sq*	−112	+ 9

[1]) 8 Mono [2]) *α* Argus [3]) *ν* Argus
[4]) *τ* Argus [5]) *π* Argus

Nr.	Name im FK3	1938.5 Δα $(0\overset{s}{.}001)$	1938.5 Δδ $(0\overset{''}{.}01)$
281	δ Voln	−162	+ 71
282	ι Gemi	−104	− 23
283	η C Maj	− 51	− 59
284	Grb 1308 Caml	−136	+ 30
285	β C Min	− 86	+ 8
286	ρ Gemi	− 87	− 73
287	α Gemi *cg*	− 65	−268
288	108 G. Pupp	− 64	+106
289	25 Mono	− 81	− 19
290	127 G. Pupp[1])	− 51	+ 25
291	α C Min *cg*	− 29	− 3
292	24 Lync	−101	+ 6
293	26 α Mono[2])	− 15	− 11
294	κ Gemi	− 93	+ 8
295	β Gemi	− 75	− 5
296	π Gemi	−124	0
297	ζ Voln	+291	+ 44
298	†9 Pupp *m*[3])	− 83	0
299	26 Lync	−125	+ 35
300	Grb 1374 Caml	− 26	− 12
301	213 G. Pupp[4])	− 55	+ 9
302	53 Caml	−323	+ 9
303	χ Cari[5])	−118	0
304	27 Mono	−158	− 63
305	χ Gemi	− 93	0
306	ζ Pupp[6])	− 1	+ 38
307	27 Lync	−114	− 14
308	ρ Pupp[7])	− 25	+ 40
309	γ Velr[8])	− 9	+ 49
310	Br 1147 Caml	+ 8	− 5
311	20 Pupp[9])	− 84	+ 16
312	β Cncr	− 71	+ 13
313	289 G. Pupp[10])	+ 33	+ 27
314	31 Lync	− 99	+ 32
315	ε Cari[11])	− 80	− 6
316	Br 1197 Hyda	− 83	− 20
317	o U Maj	−111	+ 4
318	ϑ Cham	+415	+ 37
319	β Voln	+ 15	+109
320	Grb 1450 Lync	− 78	− 10

[1]) f Pupp [2]) 26 Mono [3]) 205 G. Pupp
[4]) *α* Pupp [5]) *χ* Argus [6]) *ζ* Argus [7]) *ι* Navis
[8]) *γ* Argus [9]) 20 Navis [10]) q Pupp [11]) *ε* Argus

Nr.	Name im FK3	1938.5 $\Delta\alpha$ ($0^s.001$)	1938.5 $\Delta\delta$ ($0''.01$)
321	η Cncr	−114	+ 8
322	Grb 1446 Caml	−120	0
323	Grb 1460 U Maj	− 84	− 1
324	48 G.Velr[1])	− 2	+ 84
325	6 Hyda	− 34	− 11
326	δ Cncr	− 81	+ 25
327	α Pyxi	− 37	− 2
328	ι Cncr	− 92	+ 20
329	†ε Hyda *m*	− 69	− 26
330	†δ Velr *m*[2])	− 32	+104
331	η Cham	+396	− 87
332	γ Pyxi	− 62	− 71
333	†σ^2 Cncr *m*	− 78	+ 18
334	ζ Hyda	− 78	− 6
335	ι U Maj	− 95	+ 44
336	108 G. Cari[3])	− 53	− 80
337	α Cncr	− 80	+ 16
338	ρ U Maj	−113	+ 13
339	Br 1268 Lync[4])	−134	+ 52
340	Grb 1501 U Maj	−107	− 12
341	κ U Maj	−102	+ 46
342	97 G. Velr[5])	+ 48	+ 77
343	α Voln	+ 55	+ 79
344	†σ^2 U Maj	−229	− 68
345	λ Velr[6])	+ 21	+ 25
346	36 Lync	−122	+ 35
347	ϑ Hyda	− 66	+ 4
348	β Cari[7])	+ 75	+ 28
349	†38 Lync	−100	+ 3
350	83 Cncr	−109	+ 7
351	ι Cari[8])	+ 46	+ 2
352	α Lync[9])	− 63	+ 5
353	κ Velr[10])	+ 23	+ 34
354	α Hyda	− 70	− 25
355	23 U Maj[11])	−128	− 4
356	ε Antl	− 33	+ 43
357	24 U Maj[12])	−149	+ 6
358	ϑ U Maj	− 87	+ 20
359	†ψ Velr *m*[13])	− 17	− 5
360	10 LMin	−109	− 21

[1]) e Velr [2]) δ Argus [3]) c Cari [4]) 10 UMaj [5]) c Velr [6]) λ Argus [7]) β Argus [8]) ι Argus [9]) 40 Lync [10]) κ Argus [11]) h UMaj [12]) d UMaj [13]) ψ Argus

Nr.	Name im FK3	1938.5 $\Delta\alpha$ ($0^s.001$)	1938.5 $\Delta\delta$ ($0''.01$)
361	N Velr	− 95	− 17
362	H Cari	+ 91	+ 37
363	Grb 1564 U Maj	−114	+ 2
364	κ Hyda	− 73	− 70
365	o Leon	− 74	− 9
366	ϑ Antl	− 48	− 19
367	ε Leon	− 71	+ 11
368	υ U Maj	−111	− 12
369	†υ Cari[1])	− 12	+ 57
370	6 Sext	− 82	0
371	μ Leon	− 48	− 23
372	Grb 1586 U Maj	− 83	+ 16
373	183 G. Hyda	−108	+132
374	19 LMin	−101	− 11
375	φ Velr[2])	− 35	+ 67
376	12 Sext	− 81	− 55
377	η Antl	− 44	+ 2
378	π Leon	− 68	− 5
379	η Leon	− 59	+ 6
380	α Leon	− 54	+ 27
381	λ Hyda	− 85	− 27
382	191 G.Velr[3])	+ 58	− 13
383	λ U Maj	− 79	+ 32
384	ζ Leon	− 77	− 27
385	ω Cari[4])	−203	+ 4
386	μ U Maj	− 80	+ 38
387	30 H. U Maj	− 49	− 36
388	25 Sext	− 53	+ 36
389	μ Hyda	− 85	+ 9
390	β LMin[5])	− 94	− 15
391	J Cari	+181	− 81
392	α Antl	− 29	+ 45
393	196 G. Cari[6])	+ 14	+ 42
394	36 U Maj	− 82	− 9
395	9 H. Drac	− 73	− 28
396	ρ Leon	− 57	− 2
397	203 G. Cari[7])	−127	+ 5
398	37 U Maj	− 97	− 1
399	44 Hyda	− 98	+ 6
400	†222 G.Velr *m*[8])	+120	+ 81

[1]) υ Argus [2]) φ Argus [3]) q Velr [4]) ω Argus [5]) 31 LMin [6]) s Cari [7]) p Cari [8]) p Velr

Nr.	Name im FK3	1938.5 Δα (0.ˢ001)	1938.5 Δδ (0.″01)
401	γ Cham	−125	− 77
402	225 G.Velr[1]	+264	+103
403	35 H. UMaj	+ 3	+ 12
404	33 Sext	− 71	+ 6
405	41 LMin	− 89	− 45
406	ϑ Cari[2]	− 41	+ 33
407	42 LMin	− 99	− 17
408	†μ Velr[3]	+ 92	+ 92
409	53 Leon[4]	− 71	+ 20
410	ν Hyda	− 50	+ 23
411	δ² Cham	−256	− 52
412	46 LMin	− 90	− 18
413	Br 1508 Drac	− 16	− 31
414	ι Antl	− 41	+ 45
415	239 G.Velr[5]	− 83	+ 14
416	β UMaj	− 77	+ 19
417	α UMaj	− 59	+ 21
418	χ Leon	− 63	− 17
419	χ¹ Hyda[6]	+ 18	+ 34
420	ψ UMaj	− 83	+ 37
421	β Crat	− 37	− 25
422	δ Leon	− 69	+ 11
423	ϑ Leon	− 49	− 4
424	Grb 1757 UMaj	− 54	+ 49
425	ν UMaj	− 96	+ 9
426	δ Crat	− 36	+ 12
427	σ Leon	− 67	− 4
428	π Cent	− 3	+ 24
429	Grb 1771 UMaj	− 79	− 31
430	†ι Leon	− 6	+ 40
431	γ Crat	− 45	− 44
432	58 UMaj	−117	+ 30
433	λ Drac	− 54	+ 16
434	ξ Hyda	− 12	+ 40
435	C² Cent	+ 32	− 27
436	λ Cent	− 2	+ 49
437	υ Leon	− 56	+ 30
438	π Cham	−264	+ 56
439	ο Hyda	− 61	+ 22
440	3 Drac	− 96	− 30

[1]) x Velr [2]) ϑ Argus [3]) μ Argus
[4]) l Leon [5]) i Velr [6]) χ Hyda

Nr.	Name im FK3	1938.5 Δα (0.ˢ001)	1938.5 Δδ (0.″01)
441	χ UMaj	− 91	+ 28
442	λ Musc	− 21	+ 47
443	65 G. Cent	−147	+ 80
444	β Leon	− 53	− 10
445	β Virg	− 55	+ 21
446	B Cent	+ 91	+ 93
447	γ UMaj	− 68	+ 37
448	†ε Cham *m*	+121	+ 36
449	88 G. Cent	+ 83	+ 38
450	ο Virg	− 62	+ 55
451	Grb 1852 Caml	− 32	− 18
452	δ Cent	+ 13	+ 18
453	ε Corv	− 38	+ 5
454	Br 1634 Caml[1]	− 65	− 24
455	δ Cruc	− 23	+116
456	δ UMaj	−132	+ 12
457	γ Corv	− 45	+ 15
458	2 CVen	−136	+ 45
459	β Cham	+ 38	+ 9
460	η Virg	− 60	+ 13
461	6 CVen	− 77	− 19
462	α Cruc *m*	− 3	+106
463	323 G. Hyda	− 10	+128
464	σ Cent	− 3	+ 55
465	δ Corv	− 57	+ 9
466	20 Coma	−113	+ 31
467	74 UMaj	− 15	+ 11
468	γ Cruc	+ 24	+ 68
469	γ Musc	−115	+ 84
470	β CVen[2]	−101	+ 58
471	β Corv	+ 12	+ 24
472	κ Drac	− 63	+ 12
473	24 Coma *sq*	− 96	+ 12
474	α Musc	−100	+115
475	χ Virg	− 75	+ 47
476	†γ Cent *m*	+ 36	+ 65
477	†γ Virg *m*	− 68	+ 33
478	76 UMaj	−127	− 23
479	330 G. Hyda	− 72	+ 85
480	†β Musc *m*	− 20	+ 48

[1]) 4 H. Drac [2]) 8 CVen

Nr.	Name im FK3	1938.5 $\Delta\alpha$ $(0^s.001)$	1938.5 $\Delta\delta$ $(0''.01)$
481	β Cruc	+ 35	+ 63
482	150 G. Cent[1])	+ 34	+ 98
483	ε UMaj	− 58	+ 26
484	δ Virg	− 43	+ 45
485	α CVen *sq*[2])	− 60	+ 3
486	8 Drac	− 52	− 10
487	δ Musc	+212	+ 9
488	ε Virg	− 57	+ 12
489	ξ^2 Cent	− 18	+106
490	ϑ Virg	− 50	+ 40
491	17 CVen	− 97	+ 51
492	β Coma[3])	− 70	− 6
493	η Musc	−217	+ 82
494	20 CVen	− 69	+ 68
495	γ Hyda	− 38	+ 46
496	ι Cent	+ 37	+ 41
497	ζ UMaj *pr*	− 68	+ 4
498	α Virg	− 29	+ 10
499	Grb 2001 UMin	− 35	+ 17
500	69 H. UMaj	− 67	− 13
501	ζ Virg	− 48	+ 13
502	17 H. CVen	− 32	+ 15
503	49 G. Cham	+ 23	− 7
504	ε Cent	+ 65	+115
505	Grb 2029 UMin	− 86	− 29
506	1 Cent[4])	+ 1	+ 49
507	τ Boot	− 47	+ 44
508	μ Cent	+ 18	− 18
509	η UMaj	− 93	+ 48
510	89 Virg	− 66	− 19
511	10 Drac[5])	− 91	− 40
512	ζ Cent	+ 62	+121
513	η Boot	− 66	+ 12
514	294 G. Cent	− 87	+ 10
515	47 Hyda	− 48	+ 85
516	τ Virg	− 68	+ 49
517	11 Boot	−107	+ 39
518	β Cent	− 34	+118
519	π Hyda	− 23	+ 76
520	ϑ Cent	+ 29	+ 70

[1]) n Cent [2]) 12 CVen sq [3]) 43 Coma [4]) i Cent [5]) i Drac

Nr.	Name im FK3	1938.5 $\Delta\alpha$ $(0^s.001)$	1938.5 $\Delta\delta$ $(0''.01)$
521	α Drac	−102	− 12
522	12 *d* Boot[1])	−101	+ 40
523	κ Virg	− 57	+ 15
524	4 UMin	− 33	− 24
525	ι Virg	− 11	+ 33
526	α Boot	− 40	+ 29
527	λ Boot	− 83	+ 47
528	ι Boot	− 90	+ 31
529	υ Cent	+105	+157
530	10 G. Circ	+ 90	+146
531	ϑ Boot	− 95	+ 33
532	52 Hyda	+ 10	+ 33
533	φ Virg	− 70	+ 25
534	ρ Boot	− 82	+ 32
535	γ Boot	− 84	+ 38
536	Grb 2125 Drac	−149	− 14
537	η Cent	− 10	+ 25
538	α Cent *cg*	+ 42	− 9
539	α Circ	+ 93	− 11
540	33 Boot	− 66	+ 45
541	α Lupi	− 21	+106
542	α Apds	+278	+ 86
543	†ζ Boot *m*	− 66	+ 51
544	371 G. Cent[2])	+ 6	+ 88
545	μ Virg	− 42	+ 37
546	30 G. Lupi[3])	− 42	+ 65
547	109 Virg	− 55	+ 62
548	α^2 Libr[4])	− 17	+ 29
549	Grb 2164 Drac	− 56	+ 44
550	β UMin	−113	+ 24
551	P. XIV 221 Boot	− 68	+ 87
552	β Lupi	+ 47	+119
553	κ Cent	− 19	+ 56
554	2 H. UMin	− 14	− 44
555	β Boot	− 79	+ 68
556	σ Libr[5])	− 25	+ 58
557	ψ Boot	− 74	+ 47
558	ζ Lupi	+ 34	+ 12
559	ι Libr	− 28	+ 47
560	γ TriA	− 78	+ 53

[1]) d Boot [2]) c^1 Cent [3]) b Lupi [4]) α Libr [5]) γ Scor

Nr.	Name im FK3	1938.5 Δα (0.s001)	1938.5 Δδ (0".01)
561	β Circ	− 24	+ 47
562	3 Serp	− 77	+ 56
563	δ Boot	−102	+ 23
564	β Libr	− 60	+ 39
565	1 H. UMin	−169	+ 28
566	φ^1 Lupi	− 29	+ 64
567	$\varkappa^1$ Apds	+ 10	+ 12
568	μ Boot *pr*	− 61	+ 16
569	γ UMin	−179	+ 21
570	τ^1 Serp	− 67	+ 64
571	ι Drac	−134	− 3
572	β CorB	− 96	+ 45
573	ν^1 Boot	− 85	+ 42
574	ε TriA	+ 65	+ 69
575	†γ Lupi *m*	+ 36	+ 83
576	ϑ CorB	− 64	+ 59
577	γ Libr	− 58	− 9
578	α CorB	− 66	+ 46
579	υ Libr[1])	+ 1	+ 65
580	φ Boot	−101	+ 28
581	†γ CorB	−103	+ 60
582	α Serp	− 45	+ 18
583	β Serp	− 72	+ 42
584	κ Serp	− 77	+ 63
585	μ Serp	− 36	+ 29
586	χ Lupi	− 9	− 23
587	12 H. Drac	−117	+ 15
588	ε Serp	− 49	+ 23
589	β TriA	− 97	+ 71
590	ζ UMin	−132	− 22
591	γ Serp	− 63	+ 49
592	π Scor	+ 13	+102
593	ε CorB	− 53	+ 29
594	δ Scor	− 29	+ 75
595	Grb 2296 Drac	− 60	− 13
596	δ Norm	+ 6	+155
597	β Scor *pr*	− 12	+ 45
598	ϑ Drac	−132	− 16
599	ϑ Lupi	+ 25	+ 37
600	κ Norm	+146	+220
601	φ Herc	− 90	+ 27
602	δ TriA	− 48	+ 47
603	δ Ophi	− 51	+ 29
604	γ^2 Norm	+ 79	+ 25
605	ε Ophi	− 35	+ 61
606	19 UMin	−150	+ 11
607	σ Scor	− 20	+ 71
608	τ Herc	− 77	+ 34
609	γ Herc	− 43	+ 21
610	ζ TriA	+225	+ 99
611	γ Apds	−240	+ 11
612	η UMin	−132	− 37
613	ω Herc	− 63	+ 62
614	Grb 2343 Drac	−118	+ 8
615	†η Drac	− 77	− 7
616	α Scor	− 7	+ 43
617	†λ Ophi *m*	− 37	+115
618	β Herc	− 62	+ 30
619	A Drac	− 83	+ 1
620	τ Scor	− 10	+ 63
621	σ Herc	− 99	+ 36
622	ζ Ophi	− 49	+ 16
623	Grb 2373 UMin	− 95	0
624	Br 2114 Ophi[1])	− 43	+ 2
625	α TriA	+ 76	+ 88
626	η Herc	− 87	0
627	Grb 2377 Drac	−136	+ 56
628	ε Scor	+ 38	+ 23
629	49 Herc	− 77	+ 56
630	†ζ^2 Scor	+ 85	+ 38
631	ζ Arae	− 1	+ 73
632	ε^1 Arae	+ 84	+152
633	κ Ophi	− 47	+ 31
634	ε Herc	− 85	+ 31
635	60 Herc	− 57	+ 36
636	Grb 2415 Herc	− 95	− 22
637	†η Ophi *m*	− 20	+ 33
638	η Scor	− 36	+ 75
639	ζ Drac	− 92	+ 2
640	†α Herc *pr*	− 42	+ 51

[1]) 3 H. Scor (zu Nr. 579)

[1]) 24 Scor (zu Nr. 624)

Nr.	Name im FK3	1938.5 Δα (0ˢ.001)	1938.5 Δδ (0″.01)
641	δ Herc	−71	−1
642	ι Apds	+136	+56
643	π Herc	−73	+14
644	ϑ Ophi	−7	+30
645	β Arae	−18	+90
646	45 Ophi[1]	+7	+28
647	27 H. Ophi	−87	+46
648	δ Arae	−44	+56
649	υ Scor	+119	+62
650	77 Herc[2]	−107	+81
651	α Arae	+9	+123
652	λ Scor	+38	+29
653	β Drac	−92	+30
654	ϑ Scor	+45	+116
655	ν¹ Drac	−140	+30
656	α Ophi	−34	+40
657	ν² Drac	−157	+11
658	ξ Serp	−25	+28
659	27 Drac[3]	−47	+3
660	ϰ Scor	+7	−9
661	η Pavo	+80	+8
662	μ Arae	−2	+104
663	ι Herc	−80	+58
664	ω Drac	−109	+1
665	β Ophi	−44	+38
666	ι¹ Scor	+32	−9
667	μ Herc	−34	+51
668	γ Ophi	−51	+39
669	G Scor	+11	+59
670	ψ Drac *pr*	−48	+1
671	ξ Drac	−115	+2
672	ϑ Herc	−69	+1
673	ν Ophi	−36	−6
674	ξ Herc	−69	+48
675	35 Drac	−67	+28
676	γ Drac	−79	+20
677	67 Ophi	−66	+18
678	66 G. Apds	+475	−77
679	γ Sgtr	+6	+62
680	72 Ophi	−48	+23

[1]) d Ophi [2]) x Herc [3]) f Drac

Nr.	Name im FK3	1938.5 Δα (0ˢ.001)	1938.5 Δδ (0″.01)
681	o Herc	−73	+60
682	μ Sgtr	−21	+29
683	η Sgtr	−2	+3
684	Grb 2533 Lyra	−66	+22
685	36 Drac	−86	+2
686	ξ Pavo	+103	−106
687	δ Sgtr	−11	+22
688	η Serp	−43	+25
689	ε Sgtr	+16	+7
690	109 Herc	−59	+93
691	α Tele	−14	+15
692	λ Sgtr	−11	+41
693	†φ Drac *m*	−74	+62
694	†39 Drac[1]	−122	+27
695	χ Drac	−101	+31
696	γ Scut[2]	−28	−31
697	ϑ CorA	+25	+27
698	ζ Pavo	+217	+52
699	α Lyra	−55	+6
700	Grb 2655 Drac	−93	+35
701	Grb 2640 Drac	−73	−10
702	ε Scut[3]	−48	−9
703	110 Herc	−44	+41
704	λ Pavo	+63	+43
705	β Lyra	−74	−7
706	σ Sgtr	+8	+63
707	o Drac	−106	+5
708	λ Tele	+57	−73
709	ϑ Serp *pr*	−41	+61
710	ξ² Sgtr[4]	−22	+27
711	R Lyra	−109	+48
712	ε Aqil	−19	+41
713	γ Lyra	−54	+15
714	υ Drac	−117	+46
715	†ζ Sgtr *m*	+23	−27
716	ζ Aqil	−37	+41
717	λ Aqil	−43	+3
718	α CorA	+48	+81
719	ι Lyra	−85	+28
720	π Sgtr	−5	−2

[1]) b Drac [2]) 2 H. Scut [3]) 5 H. Scut [4]) ξ Sgt

Nr.	Name im FK3	1938.5 Δα (0.s001)	1938.5 Δδ (0.″01)
721	†60 G. Pavo *m*	+ 64	−12
722	43 Sgtr[1])	− 27	−35
723	δ Drac	−103	+38
724	ϑ Lyra	− 44	+24
725	ω Aqil	− 54	+32
726	ϰ Cygn	− 88	+36
727	υ Sgtr	− 59	−10
728	α Sgtr	+ 19	+ 8
729	τ Drac	− 84	+24
730	δ Aqil	− 39	+20
731	186 G. Sgtr	+ 8	+17
732	β Cygn *pr*	− 43	+24
733	ι Cygn	− 63	+38
734	Grb 2900 Drac	−413	+30
735	ι Tele	+117	+ 6
736	52 Sgtr[2])	− 10	+20
737	ϰ Aqil	− 71	−20
738	ϑ Cygn	− 42	+50
739	ν Tele	+ 66	+17
740	15 Cygn	− 65	−12
741	γ Aqil	− 32	+21
742	†δ Cygn	− 79	+64
743	δ Sgte	− 53	− 5
744	51 Aqil	− 38	−40
745	α Aqil	− 16	+20
746	η Aqil	− 57	+32
747	†ε Drac	− 83	+74
748	ε Pavo	+261	−20
749	β Aqil	− 33	+ 8
750	†ψ Cygn	− 68	+21
751	ϑ^1 Sgtr	+ 37	+69
752	γ Sgte	− 40	+26
753	62 Sgtr[3])	− 3	+19
754	δ Pavo	+ 18	+93
755	ξ Tele	+160	+70
756	ϑ Aqil	− 32	+12
757	31 o^1 Cygn[4])	− 79	+34
758	33 Cygn	− 53	− 8
759	ϰ Ceph	+ 2	+13
760	24 Vulp	− 72	+36
761	α^2 Capr	− 34	− 30
762	β Capr	− 9	− 9
763	$\varkappa^1$ Sgtr	− 60	+ 58
764	α Pavo	− 40	− 14
765	γ Cygn	− 50	+ 8
766	†ρ Capr	− 38	− 10
767	ϑ Ceph	− 80	+ 28
768	ε Delf	− 48	+ 53
769	α Indi	+ 87	+ 60
770	73 Drac	−104	+ 3
771	†β Delf *m*	− 42	+ 43
772	ϰ Delf	− 57	+ 11
773	υ Capr	− 35	+ 6
774	α Delf	− 62	+ 49
775	β Pavo	+ 2	+ 96
776	η Jndi	+ 77	+ 92
777	α Cygn	− 54	+ 37
778	δ Delf	− 57	+ 52
779	ψ Capr	− 15	+ 29
780	ε Cygn	− 77	+ 11
781	ε Aqar	− 20	− 14
782	6 H. Ceph	− 60	+ 23
783	η Ceph	− 52	+ 30
784	†λ Cygn *m*	− 58	− 23
785	β Indi	+142	+ 27
786	32 Vulp	− 65	+ 5
787	α Octn	+230	− 61
788	ν Cygn	− 65	+ 60
789	11 Aqar	− 34	+ 20
790	ζ Micr	+ 47	+ 90
791	A Capr	+ 26	+ 35
792	ξ Cygn	− 91	+ 55
793	61 Cygn *pr*	− 63	− 11
794	ν Aqar	− 53	− 11
795	Br 2777 Ceph	−152	− 2
796	23 G. Indi	+233	+205
797	ζ Cygn	− 58	+ 40
798	†Grb 3415 Ceph *m*	− 55	+ 7
799	†τ Cygn	− 67	+ 6
800	α Equl	− 53	+ 32

[1]) d Sgtr [2]) h Sgtr [3]) c Sgtr [4]) o^1 Cygn sq

Nr.	Name im FK3	1938.5 Δα (0ˢ.001)	1938.5 Δδ (0″.01)
801	ε Micr[1])	— 12	+ 39
802	ϑ^1 Micr	— 109	— 77
803	α Ceph	— 66	+ 16
804	1 Pegs	— 53	+ 48
805	γ Pavo	+ 160	+ 54
806	ζ Capr	— 23	+ 42
807	71 Cygn[2])	— 86	+ 40
808	β Aqar	— 25	+ 11
809	β Ceph	— 54	+ 46
810	ν Octn	+ 308	+101
811	74 Cygn	— 68	+ 51
812	γ Capr	— 39	— 31
813	13 H. Ceph	— 142	— 2
814	ι PscA	+ 34	— 11
815	ε Pegs	— 38	+ 39
816	†κ Pegs *m*	— 54	+ 38
817	11 Ceph	— 57	+ 44
818	λ Capr	— 66	+ 5
819	δ Capr	— 14	+ 18
820	ο Indi	+ 235	+109
821	π^2 Cygn	— 78	+ 43
822	γ Grus	+ 31	+ 56
823	16 Pegs	— 62	+ 12
824	δ Indi	+ 114	+155
825	ε Indi	— 11	+103
826	20 Pegs	— 52	+ 57
827	α Aqar	— 28	+ 28
828	ι Aqar	— 26	0
829	α Grus	— 1	+157
830	20 Ceph	— 78	+ 22
831	ι Pegs	— 63	+ 44
832	μ PscA	+ 111	+ 38
833	27 Pegs	— 100	+ 13
834	ϑ Pegs	— 58	+ 44
835	π Pegs	— 69	+ 14
836	ζ Ceph	— 41	+ 27
837	24 Ceph	— 13	+ 38
838	λ PscA	— 26	+ 14
839	ε Octn	+1041	+ 32
840	ϑ Aqar	— 32	+ 12

1) 4 PscA   2) g Cygn

Nr.	Name im FK3	1938.5 Δα (0ˢ.001)	1938.5 Δδ (0″.01)
841	α Tucn	+ 51	+ 82
842	γ Aqar	— 25	+ 51
843	31 Pegs	— 30	+ 62
844	β Lacr[1])	— 75	+ 43
845	ν Grus	+ 23	+ 45
846	δ^1 Grus	+ 27	+ 56
847	δ Ceph	— 82	+ 9
848	α Lacr[2])	— 94	+ 41
849	υ Aqar	— 46	+ 13
850	η Aqar	— 36	+ 43
851	31 Ceph	— 28	+ 45
852	10 Lacr	— 81	+ 20
853	30 Ceph	—145	+ 15
854	ε PscA	+ 24	+ 26
855	ζ Pegs	— 46	+ 42
856	β Grus	+ 94	+138
857	η Pegs	— 62	+ 71
858	13 Lacr	— 65	+ 43
859	λ Pegs	— 54	+ 28
860	ε Grus	+ 77	+ 77
861	τ Aqar	— 28	+ 25
862	μ Pegs	— 62	+ 31
863	ι Ceph	— 44	+ 34
864	λ Aqar	— 35	+ 19
865	ρ Indi	+153	+ 75
866	δ Aqar	0	+ 2
867	α PscA	+ 54	— 4
868	ζ Grus	+ 19	+ 56
869	ο Andr	— 81	+106
870	β Pegs	— 64	+ 39
871	α Pegs	— 32	+ 29
872	†ϑ Grus	+ 53	+138
873	88 Aqar[3])	+ 6	+ 29
874	†π Ceph	—104	+ 25
875	Br 3077 Cass	—147	+ 32
876	25 G. Tucn	+113	+162
877	γ Tucn	+122	+ 55
878	γ Pisc	— 22	+ 48
879	γ Scul	+ 8	+ 52
880	τ Pegs	— 46	+ 72

1) 3 Lacr   2) 7 Lacr   3) c^2 Aqar

Nr.	Name im FK3	1938.5 Δα (0ˢ001)	Δδ (0″01)
881	υ Pegs	− 54	+ 45
882	4 Cass	−104	+ 35
883	o Grus	+170	+ 77
884	κ Pisc	− 54	+ 24
885	70 Pegs	− 27	+ 76
886	β Scul	+ 15	+ 64
887	†72 Pegs *m*	− 67	+ ·4
888	248 G. Aqar	− 45	+ 17
889	11 G. Phoe	+ 72	+192
890	λ Andr	− 74	+ 54
891	ι Andr	− 65	+ 56
892	ι Pisc	− 32	+ 60
893	γ Ceph	−222	− 2
894	ω² Aqar	− 36	− 2
895	41 H. Ceph	− 96	+ 13
896	δ Scul	+ 21	+ 45
897	268 G. Aqar	− 5	− 34
898	φ Pegs	− 34	+ 58
899	ρ Cass	− 59	+ 17
900	27 Pisc	− 9	+ 17
901	π Phoe	+144	+138
902	ω Pisc	− 36	+ 10
903	ε Tucn	+129	+ 79
904	ϑ Octn	+335	+ 67
905	2 Ceti	− 9	+ 25

Nördliche Polsterne

Nr.	Name im FK3	1938.5 Δα (0ˢ001)	Δδ (0″01)
Na	43 H. Ceph	+ 4	− 21
Nb	α UMin	+ 808	− 17
Nc	Grb 750 Ceph	+ 59	− 14
Nd	51 H. Ceph	+ 321	+ 9
Ne	1 H. Drac	− 54	+ 17
Nf	30 H. Caml	+ 77	− 42
Ng	ε UMin	− 154	− 18
Nh	δ UMin	− 236	− 14
Ni	λ UMin	−1101	− 7
Nk	76 Drac	− 249	− 4

Südliche Polsterne

Nr.	Name im FK3	1938.5 Δα (0ˢ001)	Δδ (0″01)
Sa	4 G. Octn	+ 394	− 62
Sb	ξ Mens	+ 46	− 42
Sc	ζ Octn	− 165	− 94
Sd	ι Octn	+ 319	+ 6
Se	20 G. Octn	+ 313	+ 17
Sf	26 G. Octn	+ 313	+ 22
Sg	χ Octn	+ 193	+ 1
Sh	σ Octn	+1931	− 45
Si	β Octn	+ 176	+ 38
Sk	τ Octn	+ 609	− 32

Komponenten der Doppelsterne

Die Reduktionen sind im Sinne Komponente minus Schwerpunkt gegeben.

Nr.	Name	1938.0 Δα	1938.0 Δδ	1939.0 Δα	1939.0 Δδ
257	α CMaj . Hauptstern	−0ˢ040	−1″60	−0ˢ021	−1″43
287	α Gemi B .	−0.050	−1.70	−0.044	−1.63
	α Gemi A .	+0.036	+1.23	+0.032	+1.18
291	α CMin . Hauptstern	+0.046	−0.91	+0.041	−0.99
538	α Cent B . .	−0.184	+1.96	−0.145	+2.38
	α Cent A . .	+0.157	−1.66	+0.124	−2.03

Alphabetisches Sachregister